









The CALS Test Network MIL-D-28000 Class I Reference Illustration Packet Revision A

January 19, 1990

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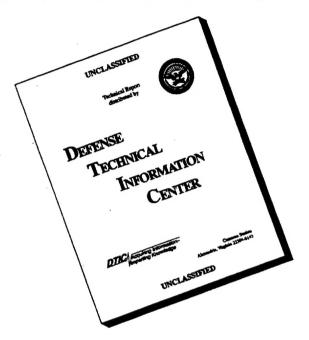


Prepared for Air Force Logistics Command AITI Project



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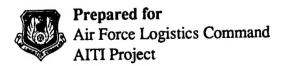
The CALS Test Network MIL-D-28000 Class I **Reference Illustration Packet Revision A**

January 19, 1990

Prepared by Lawrence Livermore National Laboratory

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Preface

This CALS Test Network MIL-D-28000 Class I Reference Illustration Packet is a document which will have periodic updates. This will occur as the reference illustrations and their associated procedures, scripts, and files are corrected for oversights and/or are updated to new versions of the standards.

I acknowledge Ben Kassel of the CALS Navy Test Bed at the David Taylor Research Center for preparing the initial versions of the IENTITY test case and scripts. I also acknowledge McDonnell Aircraft Company for allowing the CALS Test Network to modify and use the LGTABLE illustration.

Please use the information contained in this packet at your own risk. Send recommendations for change or comments about the content to:

Jill Farrell
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Abstract

This CALS Test Network MIL-D-28000 Class I Reference Illustration Packet contains the information needed to conduct tests of the Technical Publication Subset, Class I, of the military specification MIL-D-28000 using IGES processors. The material is intended to demonstrate industry and government's use of MIL-D-28000 in accordance with the CALS initiative. The CALS Test Network (CTN) is the organization tasked with demonstrating this digital data interchange among industry and government and uses this packet during CTN testing. The packet is, furthermore, used by CTN members to conduct self-tests of their companies' abilities to utilize CALS data. The results derived from this testing will allow the CTN to suggest modifications to drafting techniques, vendors' IGES processors, the IGES specification, and most importantly, the MIL-D-28000 military specification.

The CALS Test Network MIL-D-28000 Class I Reference Illustration Packet

1.0 Introduction

41.8

The DoD Computer-aided Acquisition and Logistic Support (CALS) Test Network (CTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A (1840A) and its companion suite of military specifications. The CTN is a DoD sponsored confederation of voluntary participants from industry and government, managed jointly by the technical staff at Air Force Logistics Command (AFLC) and Lawrence Livermore National Laboratory (LLNL). The objective of the CTN tests is to demonstrate and evaluate the interchange and functional use of digital technical information between industry and government using the CALS Standards.

The IENTITY and the LGTABLE reference illustrations described herein are used by the CALS Test Network during user application testing of IGES data. They, furthermore, are used by CTN members during self-tests of their digital data transfer abilities. IGES is the Initial Graphics Exchange Specification used for interchanging graphical data between dissimilar computer aided design (CAD) and technical publication systems. Specifically, these reference illustrations demonstrate the use of the IGES entities identified in the Technical Publication Subset, Class I, of the military specification, MIL-D-28000. In addition to demonstrating the use of this military specification and subset, these illustrations also allow the CTN to demonstrate the use of MIL-D-28000's parent document, MIL-STD-1840A. MIL-STD-1840A standardizes the delivery "envelope" used by organizations to exchange digital forms of technical information.

2.0 Content of the Reference Illustration Packet

The CTN MIL-D-28000 Class I Reference Illustration Packet you are currently reading contains a set of reference material. This packet contains the pieces of information needed to execute a test using a vendor's IGES processors. It contains:

- 1. Procedures to follow to conduct a pre-processor test; pre-processing is the translation from a graphics system to an IGES file.
- 2. A generation script (a set of instructions) to follow to create the IENTITY illustration on any graphics system.

- 3. Procedures to follow to conduct a post-processor test; post-processing is the translation from an IGES file to a graphics system.
- 4. The IGES files on a 9-track tape in MIL-STD-1840A format of both the IENTITY and LGTABLE reference illustrations to post-process into the graphics system.
- 5. Evaluation scripts (sets of questions) to complete after the IENTITY and LGTABLE illustrations have appeared on the screen after post-processing.
- 6. Plots of the IENTITY and LGTABLE illustrations.
- 7. A paper printout of the IGES files for both the IENTITY and LGTABLE illustrations.
- 8. Entity listing and counts for both the IENTITY and LGTABLE illustrations.

The above-mentioned pieces of information are contained in the attachments labeled A through K which follow this general introduction.

3.0 Content and Creation of the Reference Material

3.1 The IENTITY Illustration

The IENTITY illustration is comprised of all the geometric, annotation, and structure IGES entities identified in the MIL-D-28000 Class I subset. The illustration is organized such that the entities reside individually by entity and form number within one box of a grid. This box is then labeled to show which entity it should contain. All entities are model mode entities, two-dimensional, and contained on layer zero as MIL-D-28000 Class I requires. The drawing, containing a single view, is B-sized.

3.2 The LGTABLE Illustration

The LGTABLE graphic is an example of an actual technical publication illustration that completely complies to MIL-D-28000 Class I. It does not contain every entity identified in MIL-D-28000 Class I, however, it does contain a good sampling of the frequently used entities such as lines, circles, splines, text, and fill. Again, all entities are model mode, two-dimensional, and located on layer zero. The single view is contained on an A-sized drawing.

The LGTABLE illustration is included in this packet to be used during post-processor testing only. Although very useful as a sample illustration, pre-processor testing information was not deemed appropriate for LGTABLE because of the illustration's size and complexity.

3.3 Development of the IGES Files

The IENTITY and LGTABLE illustrations were drafted on a CAD system, then pre-processed into IGES files. Because the pre-processed IGES files did not completely conform to IGES Version 4.0 and MIL-D-28000, did not include all desired Class I entities, and included unwanted volunteer entities, the files were hand edited. During this hand editing, the criteria discussed in the "Guide to Developing IGES Test Cases" written by the IGES Test Case Subcommittee of the National IGES/PDES Committee was adhered to where ever This hand editing produced IGES files that possible. incorporate all MIL-D-28000 Class I entities and pass several IGES analyzers with no accountable errors. analyzers referred to are the IGES Model Testing System, the IGES Data Analysis Company Parser/Verify/View packages, and the Rosetta Technologies, Inc. PreVIEW software.

After the IGES files were thoroughly checked, MIL-STD-1840A headers were placed on the IGES files. Next, MIL-STD-1840A declaration files were written for each file. Lastly, all files were copied to a 9-track tape at MIL-STD-1840A-required formats.

3.4 The Scripts

This reference illustration packet contains two different sets of scripts. The generation script describes how to create the reference illustration on a graphics system during the pre-processor test. It is designed to be generic enough to allow illustration generation on any system. The evaluation scripts describe how to evaluate the graphical model that appears during a post-processor test. These scripts ask questions that try to address DoD's present requirements for a technical publication illustration digital transfer.

3.5 The Procedures

The CTN's test procedures contained herein discuss running tests on the pre-processors and post-processors separately. These procedures follow one proposed by the National IGES/PDES Organization's Testing Subcommittee. Other procedures were derived from available hardware and software resources and past experience.

Deviations and expansions from these procedures are encouraged as required by one's needs. An example of a deviation is to perform an end-to-end test with this reference data. These procedures do not address end-to-end testing because this type of testing is usually conducted with a user's actual illustrations, not reference illustrations. An end-to-end test with this packet's reference data could easily be conducted by, first,

following the pre-processor procedures and, second, sending that pre-processed IGES file through the post-processor procedures. As stated, deviations of this type are possible and should be used as experience and requirements dictate.

4.0 Conclusion

By following the procedures described in this CTN MIL-D-28000 Class I Reference Illustration Packet and by referring to the scripts, plots, and data lists also contained within, one can examine technical publication illustration digital transfers using IGES and MIL-D-28000. This packet does not validate a vendor's conformance to MIL-D-28000 Class I, but instead allows the CTN analysts and CTN members to demonstrate industry/government's use of the MIL-D-28000 specification in accordance with the CALS initiative.

Attachment A

Procedures for Executing the CTN Reference Illustration IGES Pre-processor Test

1. Follow the "Generation Script" to create the IENTITY reference illustration on your native graphics system to the system's best abilities. Record any problems encountered or deviations taken while following the generic script on the attached incident report sheets. Use additional sheets if necessary.

Try to create the entities on the graphics system so that the desired IGES entity is pre-processed into the IGES file. The scripts specify which entities are the desired entities. To accomplish this, we recommend that these scripts be followed in the presence of both a knowledgeable system operator and an experienced IGES person, both people preferably supplied by the graphics system vendor itself. This will insure the best transfer possible with a particular vendor's software.

Furthermore, although the graphics system may not support the "desired" IGES entity, try to match the appearance of the illustration using other entities allowed in MIL-D-28000 Class I.

- 2. Pre-process the illustration into the IGES format using any available switches to create a MIL-D-28000 Class I file. Place the required MIL-D-28000 Class I Start Section information into the file. Record any errors the system reports.
- 3. Prepare a MIL-STD-1840A compliant 9-track tape containing the IENTITY IGES file and its corresponding declaration file. Be sure to include the proper MIL-STD-1840A header information to the IGES file and copy all files to the tape at the appropriate MIL-STD-1840A format. Record any difficulties experienced.
- 4. If you are conducting a self-test, collect the tape and all incident reports from steps 1, 2, and 3 for evaluation. If you pre-arranged a formal CTN test and obtained CTN approval, send the tape and all incident reports from steps 1, 2, and 3 to:

CALS Test Network, IGES Testing Lawrence Livermore National Laboratory P.O. Box 808, 7000 East Ave., L-542 Livermore, CA 94550

Refer questions to Jill Farrell at (415) 423-6348.

- 5. Evaluate the data. We at the CALS Test Network will and anyone conducting a self-test should:
 - a. Check the tape for proper MIL-STD-1840A formats.
 - b. Check the tape for appropriate MIL-STD-1840A declaration information.
 - C. Check the IGES file for appropriate MIL-STD-1840A header information.
 - d. Examine the IGES file visually for format and content.
 - e. Parse and verify the IGES file using various IGES analyzers to check for IGES syntax errors and illegal MIL-D-28000 Class I constructs.
 - f. View the graphics the IGES file generated with IGES viewing packages.
 - g. Pinpoint any file, IGES processor, IGES standard, and/or military standard inefficiencies using the above software and personal knowledge.
 - h. Bring the findings to the appropriate parties for correction (either vendor, graphics system operator, IGES Committee, or the military standard's sponsor).
 - i. CTN will publicly publish results of CTN findings.

Attachment B

IENTITY Generation Script

I-ENTITY Generation Script

- Part) Create a part named "IENTITY".
- Drawing) If the CAD system allows for a separate drawing file within the part, create a B-sized drawing with its origin in the lower left-hand corner.

INSERT ALL ENTITIES WHILE WORKING IN THE TOP VIEW CONSTRUCTION PLANE. THIS CONSTRUCTION PLANE OR REQUIRED COORDINATE ORIENTATION IS SHOWN ON THE B-SIZED I-ENTITY PLOT. ALL MODEL COORDINATES (X,Y,Z) REFERRED TO IN THIS SCRIPT ARE BASED ON THIS COORDINATE ORIENTATION. ALL UNITS ARE INCHES.

CREATE THE FOLLOWING ENTITIES ON LEVEL ZERO AND IN THE DEFAULT COLOR OF THE CAD SYSTEM. INSERT ALL ENTITIES IN MODEL MODE. IN EVERY INSTANCE, TRY TO CREATE THE ENTITY ON THE CAD SYSTEM SUCH THAT UPON PRE-PROCESSING THE PART INTO IGES, THE DESIRED ENTITY AND FORM NUMBER APPEAR IN THE IGES FILE. THE DESIRED ENTITY AND FORM NUMBERS ARE THOSE NUMBERS ALONG THE LEFT-HAND MARGIN PRECEDING THE CREATION OR INSERTION COMMAND.

Grid lines)

Insert the following grid lines:

	_			
a)	from	(0.5,10.5,0.0)	to	(0.5,0.5,0.0)
b)		(2.5, 10.5, 0.0)		(2.5, 0.5, 0.0)
c)		(4.5, 10.5, 0.0)		(4.5,0.5,0.0)
d)		(6.5,10.5,0.0)		(6.5, 0.5, 0.0)
u)		(0.5,10.5,0.0)		(0.5,0.5,0.0)
e)		(8.5,10.5,0.0)		(8.5,0.5,0.0)
f)		(10.5, 10.5, 0.0)		(10.5, 0.5, 0.0)
g)		(12.5, 10.5, 0.0)		(12.5, 0.5, 0.0)
h)		(14.5, 10.5, 0.0)		(14.5, 0.5, 0.0)
				• • • • • • • • • • • • • • • • • • • •
i)		(16.5,10.5,0.0)		(16.5,0.5,0.0)
j)		(0.5, 0.5, 0.0)		(16.5, 0.5, 0.0)
k)		(0.5, 2.5, 0.0)		(16.5, 2.5, 0.0)
1)		(0.5, 4.5, 0.0)		(16.5, 4.5, 0.0)
m)		(0.5, 6.5, 0.0)		(16.5, 6.5, 0.0)
n)		(0.5,8.5,0.0)		(16.5,8.5,0.0)
0)		(0.5, 10.5, 0.0)		(16.5, 10.5, 0.0)

- 100) Create a circular arc centered at (1.5,9.5,0.0) with a radius of 0.5 inches and traced out counterclockwise from 270 to 180 degrees.
- 102) a) Insert a line from (3.0,9.5,0.0) to (3.0,10.0,0.0).
 - b) Insert a line from (3.0,10.0,0.0) to (3.5,9.5,0.0).
 - c) Insert a cubic parametric spline through the points (3.5,9.5,0.0), (4.0,9.25,0.0), and (4.25,9.25,0.0).
 - d) Group the 2 lines and the spline together to form one entity. Use the composite curve entity (IGES entity 102) if your system supports it.

104 F0) a) Insert a conic with the general equation in standard form:

 $4x^2 + 16y^2 - 1 = 0$

- b) Rotate this conic 90 degrees clockwise and center it around (5.5,9.5,0.0). This conic is then an ellipse with a major axis of 1.0 inches (paralleling the vertical axis) and a minor axis of 0.5 inches.
- Insert an ellipse centered at (7.5,9.5,0.0) with a major axis of 1.0 inches and a minor of 0.5 inches. Position the ellipse so that the major axis parallels the horizontal axis. The general equation of this conic centered at (7.5,9.5,0.0) in standard form is:

 $4x^2 + 16y^2 - 1 = 0$

Insert a horizontal hyperbola centered at (9.75,9.5,0.0) such that only the left side is visible and that it sweeps 0.25 inches on either side of the axis of symmetry toward the negative x-direction. The hyperbola's transverse axis length is 0.5 inches and conjugate axis length is 0.25 inches. Refer to the plot for a pictorial description. The general equation of this conic rotated 180 degrees about its tip with its tip at (9.5,9.5,0.0) in standard form is:

 $16x^2 - 64y^2 - 1 = 0$

Insert a vertical parabola with a vertex of (11.5,9.5,0.0) and the focus point at (11.5,9.75,0.0). Extend the parabola into the positive y-direction to make it 0.25 inches tall. Refer to the plot for a pictorial description. The general equation of this conic rotated 90 degrees counterclockwise about (11.5,9.5,0.0) in standard form is:

 $y^2 - x = 0$

- 106 F11) a) Insert a circular arc centered at (13.5,9.25,0.0) with a radius of 0.5 and traced out counterclockwise from 0 to 180 degrees.
 - b) Transform the circular arc into a "linear planar curve" entity (IGES entity 106 Form 11) a curved string of many short straight segments.

106 F63) Create a rectangle or a "simple closed area" entity (106 Form 63) consisting of one entity between the points:

```
(15.0,9.25,0.0)
(15.0,10.0,0.0)
(16.0,10.0,0.0)
(16.0,9.25,0.0)
```

- 110) Create a line from (1.5,7.0,0.0) to (1.5,8.0,0.0).
- 112) Create a cubic parametric spline curve through the points:

```
(3.0,8.0,0.0)
(3.75,7.75,0.0)
(4.0,7.5,0.0)
(4.0,7.25,0.0)
(3.75,7.0,0.0)
(3.5,7.0,0.0)
(3.25,7.25,0.0)
(3.25,7.5,0.0)
(4.0,8.0,0.0)
```

124 F0) a) Create a temporary coordinate system (construction plane) defined by the transformation matrix shown below. This coordinate system corresponds to a construction plane rotated 90 degrees counterclockwise with its origin at (5.5,7.5,0.0).

```
0.0 1.0 0.0 5.5
-1.0 0.0 0.0 7.5
0.0 0.0 1.0 0.0
```

- b) Insert an arc centered at (0.0,0.0,0.0) swept between 0 and 180 degrees with a radius of 0.5 inches.
- c) Return to the original coordinate system.
- 126 F0) Insert a rational b-spline curve through the points: (7.0,7.0,0.0), (7.0,7.5,0.0), (7.0,8.0,0.0), (7.5,8.0,0.0), (8.0,8.0,0.0), (8.0,7.5,0.0), (8.0,7.0,0.0).
- 126 F1) Insert a rational b-spline curve through the points: (9.0,7.5,0.0), (10.0,8.0,0.0). This curve approximates a line.
- 126 F2) Insert a rational b-spline curve through the points: (12.0,7.5,0.0), (11.9045,7.79389,0.0), (11.6545,7.97553,0.0), (11.3455,7.97553,0.0), (11.0955,7.79389,0.0), (11.0,7.5,0.0). This curve approximates an arc.

- 126 F3) Insert a rational b-spline curve through the points: (14.0,7.5,0.0), (13.8528,7.67713,0.0), (13.6208,7.74259,0.0), (13.3792,7.74259,0.0), (13.1472,7.67713,0.0), (13.0,7.5,0.0). This curve approximates an elliptical arc.
- 126 F4) Insert a rational b-spline curve through the points: (16.0,7.75,0.0), (15.8231,7.60439,0.0), (15.6138,7.51295,0.0), (15.3862,7.51295,0.0), (15.1769,7.60439,0.0), (15.0,7.75,0.0). This curve approximates a parabolic arc.
- 126 F5) Insert a rational b-spline curve through the points:
 (1.25,5.71651,0.0), (1.36619,5.64544,0.0),
 (1.4722,5.56046,0.0), (1.47214,5.43958,0.0),
 (1.36622,5.35451,0.0), (1.25,5.28349,0.0). This curve approximates an hyperbolic arc.

FOR THE FOLLOWING GENERAL NOTE ENTITIES (212), USE THE STANDARD BLOCK (OR DEFAULT) TEXT FONT, A TEXT HEIGHT OF 0.125 INCHES, AND A TEXT WIDTH OF 0.1 INCHES. SELECT THE TEXT ORIGIN (OF THE FIRST TEXT LINE) BOTTOM-LEFT-JUSTIFIED UNLESS OTHERWISE STATED.

- 212 F0) a) Insert the text string "SIMPLE" horizontally at (3.0,5.625,0.0).
 - b) Insert the text string "SIMPLE" vertically at (4.0,6.0,0.0). Change the text slant 30 degrees clockwise from the vertical axis. Change the text width to 0.147 inches for this text string.
- Insert the text "DUAL" and "STACK" as one text string such that the words are both left justified and the second word is displayed below the first. Place the origin of the text at (5.0,5.625,0.0).
- 212 F2) a) Insert the text "IMBEDDED" with the origin of the text string at (7.0,5.625,0.0).
 - b) Change the font of the middle three letters, "BED", of the text string to the IGES Font 1002. This will change the letters "BED" to the symbols
- 212 F3) Insert the text string "SSUPER" such that the origin is at (9.0,5.625,0.0) and the word "SUPER" is a superscript of "S".
- Insert the text string "SSUB" such that the origin is at (11.0,5.625,0.0) and the word "SUB" is a subscript of "S".

- 212 F5) Insert the text "S", "SUPER", and "SUB" as one text string such that the origin is at (13.0,5.625,0.0) and the word "SUPER" is a superscript of "S" and "SUB" is a subscript of "S".
- 212 F6) Insert the text "M", "STACK", and "LEFT" as one multilined text string such that the origin of the text string is at (15.0,5.75,0.0) and all words are leftjustified to a common margin.
- Insert the text "M", "STACK", and "CENTER" as one multi-lined text string that is bottom-center-justified with the origin at (1.5,3.75,0.0).
- Insert the text "M", "STACK", and "RIGHT" as one multilined text string that is bottom-right-justified with the origin at (4.0,3.75,0.0).
- 212 F100) Insert a multi-lined text string that is bottom-left-justified with the origin at (5.0,3.5625,0.0) as follows:

FRAC S ----TION

There are two spaces between the whole number part and the fractional part. The second string "FRAC" is a superscript of the first string "S", the third string "TION" is a subscript of the first string, and "----" is the fourth string.

212 F101) Insert a multi-lined text string with the origin of the first string at (7.0,3.8125,0.0) as follows:

DUAL ---

STACK BOT TOM

There are two spaces between the whole number part and the fractional part. The second string "TO" is a superscript of the first string "DUAL", the third string "P" is a subscript of the first string, and "---" is the fourth string. The mixed numeral expression is positioned such that the fifth string "STACK" is displayed below the first string. The sixth string "BOT" is a superscript of the fifth string, and the seventh string is a subscript of the fifth string, and "----" is the eighth string.

212 F102) Insert a multi-lined text string with the origin at (8.65625,3.5625,0.0) as follows:

There are two spaces between the whole number part and the fractional part. The second string "BED" is a superscript of the first string "IM", the third string "DED" is a subscript of the first string, and "----" is the fourth string. The fifth string " = " is a special character "i" using the IGES Font 1002. The mixed numeral is positioned such that the sixth string "FR" is displayed two spaces to the right of the fifth string. The seventh string "ACT" is a superscript of the fifth string, and the eighth string "ION" is a subscript of the fifth string, and "----" is the ninth string.

212 F105) Insert a multi-lined text string with the origin at (10.625,3.625,0.0) as follows:

There are two spaces between the whole number part and the fractional part. The second string "SUP" is a superscript of the first string "FR", the third string "SUB" is a subscript of the first string, and "----" is the fourth string. The second mixed numeral is a superscript of the first, and consists of the following strings: The sixth string "O" is a superscript of the fifth string "T", and the seventh string "P" is a subscript of the fifth string, and "---" is the eighth string. The third mixed numeral is a subscript of the first, and consists of the following strings: The tenth string "TT" is a superscript of the ninth string "BO", the eleventh string "OM" is a subscript of the ninth string, and the twelfth string is "---"

230) a) Insert four lines from:

```
(13.0,3.0,0.0) to (14.0,3.0,0.0)
(14.0,3.0,0.0) (14.0,4.0,0.0)
(14.0,4.0,0.0) (13.0,4.0,0.0)
(13.0,4.0,0.0) (13.0,3.0,0.0).
```

- b) Utilize the "sectioned area entity" (230) to crosshatch between the lines. The fill should be solid parallel line segments from section edge to edge. They should be angled 45 degrees counterclockwise from the x-axis and spaced 0.2 inches apart.
- 406 F18) Insert the text "SPACING" with its bottom-left-justified origin at (14.8,3.5,0.0). Each character shall be 0.125 high and 0.1 wide, the spacing between each character shall be 0.1. This is 80 percent of the character height.
- 308) Create a subfigure named "PERSON" of a shaped figure composed of five lines from:

```
(-0.125,0.0,0.0) to (0.0,0.25,0.0)
(0.0,0.25,0.0) (0.125,0.0,0.0)
(0.0,0.25,0.0) (0.0,0.4375,0.0)
(0.0,0.375,0.0) (0.09375,0.28125,0.0)
(0.0,0.375,0.0) (-0.09375,0.28125,0.0)
```

and a circle of radius 0.0625 centered at (0.0,0.5,0.0).

- Insert the subfigure "PERSON" into the IENTITY model at the model location (1.5,1.5,0.0).
- Insert a rectangular array subfigure of "PERSON" consisting of 2 columns and 2 rows. The bottom left corner of the array is at (3.0,1.0,0.0). The horizontal distance between columns is 1.0 and the vertical distance between rows is 0.75.
- Insert a circular array subfigure of "PERSON" consisting of 3 instances centered at (5.5,1.5,0.0). The first instance is at a radius of 0.5 and an angle of 30 degrees, the other two instances are at an incremental angle of 120 degrees.

Title block) Insert the title block "CALS TEST NETWORK MIL-D-28000 CLASS I REFERENCE DRAWING I-ENTITY".

This multi-lined text should be bottom-center-justified with the text origin at (15.5,1.75,0.0). The text height and width should both be 0.09 inches.

Incident Report

Attachment C

Procedures for Executing the CTN Reference Illustration IGES Post-processor Test

Procedures for Executing the CTN Reference Illustration IGES Post-processor Test.

- 1. Receive a 9-track, MIL-STD-1840A formatted tape from the CALS Test Network containing both the IENTITY and LGTABLE IGES files in MIL-D-28000 Class I format.
- 2. Read the MIL-STD-1840A declaration information and load the IGES files onto your graphics system storage. The file names are shown in the 1840A declaration files and header fields.
- 3. Read and then strip the MIL-STD-1840A headers from the IGES files.
- Post-process the IGES files into your graphics system, noting all errors the system reports.
- 5. Inspect the resulting graphics and answer the questions listed in the evaluation scripts. If you answer "no" to any of the questions, please explain why on the incident report sheets which follow the script. Attach additional sheets if necessary.
- 6. Generate a hard copy plot of each illustration.
- 7. If you are conducting a self-test, collect the evaluation scripts, plots, and any incident reports for evaluation. If you pre-arranged a formal CTN test and obtained CTN approval, send the completed evaluation scripts, plots, and any incident reports to:

CALS Test Network, IGES Testing Lawrence Livermore National Laboratory P.O. Box 808, 7000 East Ave., L-542 Livermore, CA 94550

Refer questions to Jill Farrell at (415) 423-6348.

- 8. Evaluate the data. We at the CALS Test Network will and anyone conducting a self-test should:
 - a. Examine the incident reports, plots, and evaluation scripts.
 - b. Pinpoint processor, IGES standard, and/or military standard inefficiencies.
 - c. Bring the findings to the appropriate parties for correction (either vendor, graphics system operator, IGES Committee, or the military standard's sponsor).
 - d. CTN will publicly publish results of CTN findings.

Attachment D

IENTITY Evaluation Script

IENTITY Evaluation Script

Answer the following questions:

100)	a) _ b) _ c)	Is the circular arc centered at (1.5,9.5,0.0)? Is the arc radius 0.5 inches? Is the arc traced out from 270 to 180 degrees counterclockwise?
102)	_ a) _ b) _ c) _ d) _ e)	Is the composite curve made up of 2 lines and a spline? Does one line extend from (3.0,9.5,0.0) to (3.0,10.0,0.0)? Does the second line extend from (3.0,10.0,0.0) to (3.5,9.5,0.0)? Does the spline curve between the end points (3.5,9.5,0.0) and (4.25,9.25,0.0)? Does the composite curve behave as a single entity (selectable by one touch)?
	Form _ a) _ b) _ c) _ d)	Is the general conic arc an ellipse centered at (5.5,9.5,0.0)? Is the major axis 1.0 inches? Is the minor axis 0.5 inches?
	Form _ a) _ b) _ c) _ d)	Is the ellipse centered at (7.5,9.5,0.0)? Is the major axis 1.0 inches? Is the minor axis 0.5 inches?
104	Form _ a) _ b) _ c) _ d)	Is the hyperbola a horizontal hyperbola (shaped like a backwards "C")? Is the right most part of the hyperbola at (9.5,9.5,0.0)? Do the ends of the hyperbola extend toward the negative x-direction 0.25 inches?

104 Form	
a)	Is the parabola a vertical parabola (shaped like a wide "U")?
p)	Is the parabola's vertex (lowest point) at (11.5,9.5,0.0)?
c)	
d)	
106 Form	
a)	Does the linear planar curve look like a circular arc of radius 0.5 inches, centered at (13.5,9.25,0.0) and traced out from 0 to 180 degrees counterclockwise?
b)	Is the linear planar curve made up of short straight segments combined to form a single entity?
106 Form	63)
a)	Is a rectangle present between the points (15,9.25,0.0), (15.0,10.0,0.0), (16.0,10.0,0.0), and (16,9.25,0)?
b)	
c)	
110)	
	Is a line present from (1.5,8.0,0.0) to (1.5,7.0,0.0)?
112)	Dona Alba wall and a same
a)	Does the spline start at the upper left near (3.0,8.0,0.0), trace out toward the lower right, move toward the lower left to create a loop, and cross back over itself as it moves to the upper right near (4.0,8.0,0.0)?
b)	Does the parametric spline curve visually resemble the spline on the IENTITY plot?
124 Form	0)
a)	
b)	Is the semi-circle open toward the right side, in other words, is it shaped like a "C"?
126 Form	0)
a)	(7.0,7.0,0.0), $(7.0,7.5,0.0)$, $(7.0,8.0,0.0)$, $(7.5,8.0,0.0)$, $(8.0,8.0,0.0)$, $(8.0,7.5,0.0)$,
b)	(8.0,7.0,0.0)? Does the rational b-spline curve visually resemble the

126	Form	1)
	_ a)	Does a rational b-spline curve pass through the points? (9.0,7.5,0.0), (10.0,8.0,0.0)? This curve approximates a line.
	_ b)	
126	Form	2)
	_ a)	Place the following points on the illustration: (12.0,7.5,0.0), (11.9045,7.79389,0.0), (11.6545,7.97553,0.0), (11.3455,7.97553,0.0), (11.0955,7.79389,0.0), (11.0,7.5,0.0). Does the rational b-spline curve pass through these points? This curve approximates an arc.
	_ b)	
126	Form _ a) _ b)	Place the following points on the illustration: (14.0,7.5,0.0), (13.8528,7.67713,0.0), (13.6208,7.74259,0.0), (13.3792,7.74259,0.0), (13.1472,7.67713,0.0), (13.0,7.5,0.0). Does the rational b-spline curve pass through these points? This curve approximates an elliptical arc.
126	Form _ a) _ b)	Place the following points on the illustration: (16.0,7.75,0.0), (15.8231,7.60439,0.0), (15.6138,7.51295,0.0), (15.3862,7.51295,0.0), (15.1769,7.60439,0.0), (15.0,7.75,0.0). Does the rational b-spline curve pass through these points? This curve approximates a parabolic arc.
126	Form _ a)	· · · · · · · · · · · · · · · · · · ·
	_ b)	

212 Form	0)
a)	
	"SIMPLE" reside at (3.0.5.625.0.0)?
b)	Does a second text string also say "STMDTF"?
c)	1S this second text string vertical in orientation?
d)	Are the letters of this second text string slanted an
	degrees clockwise from the vertical axis?
e)	is the lower left corner of the letter "S" at
	(4.0,6.0,0.0)?
f)	Is the text height for both text strings 0.125 inches?
g)	Does the vertical text have a wider character width than the horizontal text?
212 Form	1)
a)	Does the text say "DUAL STACK"?
	Is the lower left corner of the text "DUAL" at (5.0,5,625,0.0)?
c)	Is the text "STACK" left justified directly below "DUAL"?
d)	Is the text height 0.125 inches?
e)	Does the entire text string act as a single entity?
212 Form	2)
	Do the first and second letters say "IM" and the sixth
	through eighth say "DED"?
b)	Do the third through the fifth letters say " "?
c)	
-31	(7.0,5.625,0.0)?
a)	Is the text height 0.125 inches?
e)	Does the entire text string act as a single entity?
212 Form	
a)	Are the words of the general note "S" and "SUPER"?
b)	Are the words of the general note "S" and "SUPER"? Is the word "SUPER" a superscript of the letter "S"?
c)	is the lower left corner of the letter "s" at
as	(9.0,5.625,0.0)?
a)	Is the text height 0.125 inches?
e)	Does the entire text string act as a single entity?
212 Form	
a)	Are the words of the general note "S" and "SUB"?
b)	Is the word "SUB" a subscript of the letter "S"?
c)	Is the lower left corner of the letter "S" at
3.	(11.0,5.625,0.0)?
d)	Is the text height 0.125 inches?
e)	Does the entire text string act as a single ontitue

212	rorm	· ·
	<u> </u>	Are the words of the general note "S", "SUPER", and "SUB"?
	b)	Is the word "SUPER" a superscript of "S"?
	c)	Is the word "SUB" a subscript of "S"?
	_ d)	Is the lower left corner of the letter "S" at (13.0,5.625,0.0)?
	e)	Is the text height 0.125 inches?
***************************************	f)	Does the entire text string act as a single entity?
212	Form	
	_ a)	Are the words of the general note "M", "STACK", and "LEFT"?
	b)	Are the words stacked one below the other ("M" then "STACK" then "LEFT")?
	_ c)	
-	d)	Is the lower left corner of the letter "M" at (15.0,5.75,0.0)?
	e)	
	f)	Does the entire text string act as a single entity?
212	Form	7)
212	a)	• • · · · · · · · · · · · · · · · · · ·
	_ ~,	"CENTER"?
	_ b)	Are the words stacked one below the other?
	_ c)	Are the words center justified?
		(1.5,3.75,0.0)?
	_ e)	
	_ f)	Does the entire text string act as a single entity?
212	Form	
		Are the words of the general note "M", "STACK", and "RIGHT"?
	b)	Are the words stacked one below the other?
	_ c)	Are the words right justified to a common margin?
	_ d)	Is the lower right corner of the letter "M" at (4.0,3.75,0.0)?
	e)	Is the text height 0.125 inches?
	_ f)	Does the entire text string act as a single entity?
212	Form	·
	_ a)	Does the text appear as shown?
		FRAC
		S
		TION
	_ b)	Is the lower left corner of the letter "S" at
		(5.07,3.56,0.0)?
	c)	Does the entire text string act as a single entity?

212 Form a)	101) Does the text appear as shown?
	DUAL TO P
	STACK BOT TOM
b)	Is the lower left corner of "DUAL" at (7.0,3.81,0.0)? Does the entire text string act as a single entity?
212 Form :	102) Does the text appear as shown?
•	IM BED ACT = FR DED ION
b)	Is the lower left corner of "IM" at (8.66,3.56,0.0)? Does the entire text string act as a single entity?
212 Form 1	105) Does the text appear as shown?
	T P SUP FR SUB TT BO OM
b)	Is the lower left corner of "FR" at (10.625,3.625,0)? Does the entire text string act as a single entity?
230)a)b)c)d)	Do four lines form a square? Is the square crosshatched with solid parallel line segments from edge to edge? Is the crosshatching spacing 0.2 inches? Is the crosshatching angled at 45 degrees?

406 F1	.8)	
	a)	Does the text say "SPACING"?
	b)	Is the lower left corner of the text at (14.8,3.5,0.0)?
	c)	Is the text height 0.125 inches?
	d)	Is the text width 0.1 inches? Is the spacing between each character 0.1 inches so
	e)	that the text is unusually widely spaced?
	f)	Does the text end at approximately (16.1,3.5,0.0)?
308)		
	a)	
	b)	Does the subfigure named "PERSON" consist of five lines from:
		(-0.125,0.0,0.0) to (0.0,0.25,0.0)
		(0.0,0.25,0.0) (0.125,0.0,0.0)
		(0.0,0.25,0.0) $(0.0,0.4375,0.0)$
		(0.0,0.375,0.0) (0.09375,0.28125,0.0)
		(0.0,0.375,0.0) (-0.09375,0.28125,0.0)
	c)	
		(0.0,0.5,0.0)?
408)		
,	a)	Does an instance of "PERSON" appear with its origin at
	•	(1.5,1.5,0.0)? The origin of "PERSON" is a point
		exactly between the person's feet.
412)		
412)	Doe	es an instance of "PERSON" appear at:
	al	(3.0.1.0.0.0)?
	b)	(4.0,1.0,0.0)? (3.0,1.75,0.0)?
	c)	(3.0,1.75,0.0)?
	d)	(4.0,1.75,0.0)?
4141	Doe	es an instance of "PERSON" appear at:
414)		(5.933,1.75,0.0)?
	b)	(5.067,1.75,0.0)?
	c)	(5.5,1.0,0.0)?
Grid		
		Are there 9 vertical grid lines? Are there 6 horizontal grid lines?
	D)	Are there a horizontal grid lines:
Entit	y Id	dentifiers)
		Is every entity identified by a name and an IGES number
		placed beneath the entity within the grid box?
Title	Blo	ock)
		Does the title block in the lower right hand grid box
	•	say, "CALS TEST NETWORK
		MIL-D-28000
		CLASS I
		REFERENCE DRAWING
		I-ENTITY"?

Incident Report

Attachment E

LGTABLE Evaluation Notes

LGTABLE Evaluation Notes

Does the post-processed illustration visually resemble the plot of the LGTABLE illustration?

Things to look for:

- * Solid fill in circles in table
- * Solid fill in arrowheads
- * Dashed lines between circles in table
- * Properly justified text in tables
- * Correct arc and conic orientations around airplane wheel
- * Relative line thicknesses
- * Text "CALS Test Network LGTABLE Reference Illustration" in lower right hand corner of illustration

Incident Report

Attachment F

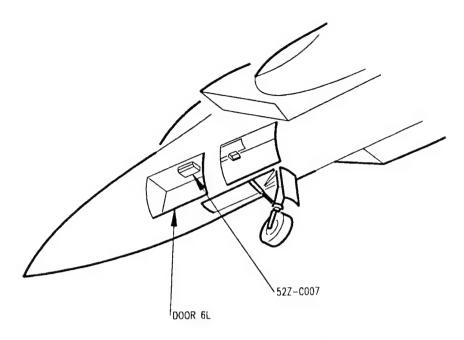
IENTITY B-sized Plot

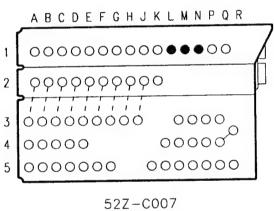
					٠,	
SIMPLE CLOSED AREA	RATIONAL B-SPLINE CURVE RATIONAL B-SPLINE CURVE	M STACK LEFT	NOTE - WULT! STACK LEFT JUST (212 FORM 6)	SPACING	INTERCHARACTER SPACING	CALS TEST NETWORK MIL-D-28000 CLASS I REFERENCE DRAWING I-ENTITY
LINEAR PLANAR CURVE	RATIONAL BSPLIME CURVE	SSUPER	NOTE - SUPER/SUB SCRIPT 1212 FORM 61		SECTIONED AREA	
CONIC ARC - PARABOLA	RATIONAL B-SPLINE CURVE	SsuB	NOTE - SUBSCRIPT	T - 9. FR SUP FR SUB	NOTE - SUPER SUB FRACTION 1212 FORM 1051	
CONIC ARC - HYPERBOLA	RATIONAL B-SPLINE CURVE	SUPER	NOTE - SUPERSCRIPT	IM BED ≠ FR ACT	NOTE - FONT/DOUBLE FRACTION (212 FORM 1021	·
C DNIC ARC - ELL IPSE	RATIONAL B-SPLINE CURVE	IM+a≥DED	NOTE - IMBEDDED FONT CHANGE (212 FORM 2)	DUAL -PP STACK BOT STACK TOW	NOTE - DUAL STACK FRACTION (212 FORM 101)	
CONIC ARE - GENERAL	TRANSFORMATION ON	DUAL	NOTE - DUAL STACK IZIZ FORM 11	SFRAC	NOTE - SIMPLE FRACTION (212 FORM 100)	CIRCULAS SUBFIGURE
COMPOSITE CURVE 1102)	PARAMETRIC SPLINE CURPE (ILIZ)	SIMPLE M	GENERAL NOTE - SIMPLE	STACK RIGHT	NOTE - MULTI STACK RIGHT JUST (ZIZ FORM B)	PRECTANGULAR SUBFLUNE PRECTANGULAR SUBFLUNE PRECTANGULAR SUBFLUNE PRECTANGULAR SUBFLUNE
CIRCUL AR ARC (100)	(011) T (14E	\wedge	RATIONAL B-SPLINE CURVE HYPERBOLIC ARC (126 FORM 5)	M STACK CENTER	NOTE - MULTI STACK CENT JUST 1212 FORM 71	SINGE SUBTIQUE

		A second right day on deathful to the con-				
SIMPLE CLOSED APEA	PATIONAL B-SPLINE CURVE RATIONAL B-SPLINE CURVE	M STACK LEFT	NOTE - MULTI STACK LEFT JUST (212 FORM 6)	SPACING	INTERCHARACTER SPACING	CALS TEST NETWORK MIC-D-28000 CLASS I REFERENTITY
LINEAR PLANAR CURVE	PATIONAL B-SPLINE CURVE	SSUPER	NOTE - SUPER/SUB SCRIPT IZIZ FORM SI		SECTIONED AREA (230)	
CONIC ARC - PARABOLA	RATIONAL B-SPLINE CURVE	Ssub	NOTE - SUBSCRIPT	T - 0- FR SUP SUB - BO IT	NOTE - SUPER/SUB FRACTION (212 FORM 105)	
CONIC ARC - HYPERBOLA	RATIONAL B-SPLINE CURVE	SUPER	NOTE - SUPERSCRIPT (212 FORM 3)	IM BEO ≠ FR ACT	NOTE - FONT/DOUBLE FRACTION (212 FORM 1021	·
CONIC ARC - ELL IPSE	RATIONAL B-SPLINE CURVE	IM+△≥DED	NOTE - IMBEDDED FONT CHANGE (212 FORM 2)	DUAL -PO STACK BOT	NOTE - DUAL STACK FRACTION (212 FORM 101)	
CONIC ARC - GENERAL	TRANSFORMATION	DU AL STACK	NOTE - CUAL STACK	SFRAC TIÔN	NOTE - SIMPLE FRACTION (212 FORM 100)	CIRCULAR SUBFIGURE
COMPOSITE CURVE 1102)	PARAMETRIC SPLINE CURVE (112)	SIMPLE M	GENERAL NOTE - SIMPLE	STACK RIGHT	NOTE - MULTI STACK RIGHT JUST (212 FORM 8)	RECTANGULAR SUBFIQUE
CIRCULAR ARC 11001	- LINE 1110)		RATIONAL B-SPLINE CURVE HYPERBOLIC ARC 1126 FORM ST	M STACK CENTER	NOTE - MULTI STACK CENT JUST 1212 FORM 7)	SINGLE SUBFIQUAL

Attachment G

LGTABLE A-sized Plot





52Z-C007	ES	SSENTIAL CIRCUIT BREAKER PANEL NO. 1		(24-50-12)
REF DES	ZONE	NOMENCLATURE		BUS
41CBC033 41CBC034 42CBC005	L1 M1 N1	L MLG WOW PWR 28	8VDC 8VDC 8VDC	ESS 28VDC ESS 28VDC ESS 28VDC

Attachment H

IENTITY IGES File Printout

CONFORMANCE:	Class	GES file I subset ember 19	Technic	s to the al Illus	MIL-D-2	8000 Amer dated	ndment	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1 2 3 4 5					
ILLUSTRATION IDENTIFIER:	IENTIT	Y, Revis	ion A					S S S	7 8 9					
DESCRIPTION:	compri in MII Test N	Reference drawing named I-entity which is comprised of all the IGES entities specified in MIL-D-28000 Class I. Contact the CALS Test Network to obtain procedures for conducting the test and evaluating the results.												
1H,,1H;,7HIEN 7HIENTITY,1.0 6HKASSEL,17HC	,1,4HIN	ICH, 8, 0.0	16,13H89	HTEST, 32 1031.080	,38,6,30 000,0.01	8,15, ,22.0,		S G G D	1 2 3 1					
0	•		1					D D	2					
0	2		1					D	4					
0 0	3		•					D	5 6					
0			1					D D	7					
0	4		1					D	8					
0	5		_					D D	9 10					
0	6		1					D	11					
0	O		1			_		D	12					
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110 110	0 8	2 1	1 1	0 0	0	0	0	10001D	15					
110	0	2	1	Ō			•	D	16					
110	9	1	1	0	0	0	0	10001D D	17 18					
110 110	0 10	2 1	1 1	0 0	0	0	0	10001D	19					
110	0	2	1	0	•	0	0	D 10001D	20 21					
110	11	1 2	1 1	0 0	0	0	0	D	22					
110 100	0 12	1	1	Ö	0	0	0	10001D	23					
100	0	2	1	0	0	0	0	D 201D	24 25					
308 308	13 0	1 0	0 1	0 0	U	O	· ·	D	26					
0	. 14	J						D D	27 28					
0	1.5		1					D	29					
0 0	15		1					D	30					
0	16							D D	31 32					
0 0	17		1					D	33					
0	17		1					D	34					
0	18		4					D D	35 36					
0 124	19	1	1 0	0	0	0	0	1D	37					
124	0	0	1	0				D	38					
0	20	1	0	0	0	0	0	1D D	39 4 0					
0 0	0 21	0 1	1 0	0 0	0	0	0	1D	41					
Ŏ	0	0	1	0	•	•	^	D 10201D	42 43					
0	22	1 0	0 1	0 0	0	0	0	10201D	44					
0	0 23	1	0	0	0	0	0	10101D	45 46					
0	0	0	1	0				D D	46					
0	24													

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0	25							D	49
Ŏ	0.0		1					D D	50 51
0 0	26		1					D	52
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0			1			•	•	D	54
410 410	28 0	1 0	0 1	0	0	0	0	20101D D	55 56
110	29	1	1	Ŏ	0	0	0	10001D	57
110	0	2	1	0				D	58
110	30	1	1	0	0	0	.0	10001D D	59 60
110 124	0 31	2 1	1	0 0	0	0	•	1D	61
124	0	0	1	0				D	62
104	32	1	1	0	0	61	0	1D	63
104 124	0 33	2 1	1 0	2 0	0	0	©	D 1D	64 65
124	0	Ō	1	Ö	v	J	~	D	6.6
104	34	1	1	0	0	65	0	1D	67
104	0	2	1	3	^	^	•	D	6.8 6.9
124 124	35 0	1 0	0 1	0 0	0	0	.0	1D D	70
104	36	1	1	Ö	0	69	0	1D	71
104	0	2	1	0				D	72
110 110	37 0	1 2	1	0 0	0	0	0	1D D	73 74
124	38	1	0	Ö	0	0	0	1D	75
124	0	0	1	0				D	76
104 104	39 0	1 2	1	0 1	0	75	0	1D D	77 78
100	40	1	1	Ō	0	0	0	1D	79
100	0	2	1	0				D	80
110 110	41	1 2	1	0 0	0	0	0	10001D D	81 82
110	42	1	1	Ö	0	0	0	10001D	83
110	0	2	1	0				D	84
110 110	43 0	1 2	1	0 0	0	0	0	10001D D	85 86
110	44		1	0	0	0	0	10001D	87
110	0	1 2 1	1	0				D	88
110 110	45 0	1	1	0	0	0	0	1D	89 90
110	46	1	1	0	0	0	0	D 1D	91
110	0	2	1	0				D	92
110 110	47 0	2 1 2 1 2 1 2	1	0	0	0	0	1D D	93
110	48	1	1	0	0	0	0	1D	94 95
110	0		1 1 1	0				D	96
110 110	49 0	1 2 1		0	0	0	0	1D	97
110	50	1	1	0 0	0	0	0	D 1D	98 99
110	0	2	1	0				D	100
110 110	51	1	1	0	0	0	0	1D	101
110	0 52	2 1 2 1	1 1 1 1	0 0	0	0	0	D 1D	102 103
110	0	2	1	Ö	U	U	O	D	103
110	53	2 1 2	1	0	0	0	0	1D	105
110 110	0 54	2 1	1	0	0	0	•	D	106
110	0	2	1 1	0	0	0	0	1D D	107 108
110	55	2 1 2	1	0	0	0	0	1D	109
110 110	0 56	2	1	0	•			D	110
110	0	1 2	1	0 0	0	0	0	1D D	111 112
110	57	2 1	1	Ö	0	0	0	1D	113

7

110	110	0	2	1	0				D	114
110	110 110		2 1	1	0	0	0	0		115 116
110			2 1	1		0	0	0	1D	117
0	110	0	2	1	0					
0 61	0	60		1					D	120
0 62 1 D 123 0 0 63 1 D 126 0 0 64 1 D 126 0 0 65 1 D 128 0 0 66 1 D 129 0 0 66 1 D 129 0 0 67 1 D 131 0 0 68 1 D 132 0 0 68 1 D 131 0 0 68 1 D 131 106 69 1 1 0 0 0 0 1D 137 106 0 0 2 8 11 0 0 0 0 1D 137 106 0 0 2 1 63 1 D 138 112 0 0 0 1 D 139 115 0 0 0 0 1 D 139 116 0 0 0 1 D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 139 116 0 0 0 0 0 0 1D 141 112 0 0 0 0 0 0 0 1D 143 112 0 0 0 0 0 0 1D 143 112 0 0 0 0 0 0 1D 143 112 0 0 0 0 0 0 1D 143 112 0 0 0 0 0 0 1D 143 112 0 0 0 0 0 0 1D 143 112 0 0 0 0 0 0 1D 143 112 0 0 0 0 0 0 1D 143 112 0 0 0 0 0 0 1D 143 112 0 0 0 0 0 0 1D 145 126 0 0 0 0 0 0 1D 145 126 0 0 0 0 0 0 1D 145 126 0 0 0 0 0 0 1D 145 126 0 0 0 0 0 0 1D 155 126 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 0 1D 155 126 100 1 1 1 0 0 0 0 0 0 0 1D 156 127 129 1 0 0 0 0 0 0 0 0 1D 166 127 149 1 0 0 0 0 0 0 0 0 1D 166 127 149 1 0 0 0 0 0 0 0 0 1D 166 127 149 1 0 0 0 0 0 0 0 0 1D 166 127 149 1 0 0 0 0 0 0 0 0 1D 167 127 127 0 0 0 0 0 0 0 0 1D 177 127 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	61		1						
0 63 1 D 125 0 125		62								
0 64 1 D 128 0 65 1 D 129 0 66 1 D 130 0 66 D 1 D 130 0 67 D 131 0 68 D 1 D 133 0 66 D 1 D 133 0 0 68 D 1 D 133 106 69 1 1 0 0 0 0 0 1D 137 106 67 1 D 138 106 77 1 1 0 0 0 0 0 1D 139 106 77 1 1 0 0 0 0 0 1D 139 106 77 1 1 0 0 0 0 0 1D 139 112 78 1 1 0 0 0 0 0 1D 141 112 78 1 1 0 0 0 0 0 1D 142 112 82 1 1 0 0 0 0 0 1D 142 112 82 1 1 0 0 0 0 0 1D 144 126 96 1 1 0 0 0 0 0 1D 144 126 96 1 1 0 0 0 0 0 1D 144 126 96 1 1 0 0 0 0 0 1D 145 126 0 0 2 2 4 0 0 0 0 1D 145 126 0 0 2 2 1 0 0 0 0 0 1D 147 126 102 1 1 1 0 0 0 0 0 0 1D 147 126 102 1 1 1 0 0 0 0 0 0 1D 149 126 102 1 1 1 0 0 0 0 0 0 1D 149 126 102 1 1 1 0 0 0 0 0 0 1D 149 126 102 1 1 1 0 0 0 0 0 0 1D 149 126 102 1 1 1 0 0 0 0 0 0 1D 149 126 102 1 1 1 0 0 0 0 0 0 1D 149 126 102 1 1 1 0 0 0 0 0 0 1D 149 126 102 1 1 1 0 0 0 0 0 1D 149 126 102 1 1 1 0 0 0 0 0 0 1D 151 126 103 1 1 1 0 0 0 0 0 0 1D 151 126 104 1 1 1 0 0 0 0 0 0 1D 151 126 107 1 1 1 0 0 0 0 0 0 1D 151 126 107 1 1 1 0 0 0 0 0 0 1D 151 126 10 1 2 2 4 0 0 0 0 0 1D 151 126 10 1 2 2 4 0 0 0 0 0 0 1D 151 126 10 1 2 2 4 0 0 0 0 0 0 1D 151 126 10 1 2 2 4 0 0 0 0 0 0 1D 151 126 0 0 2 1 1 0 0 0 0 0 0 1D 151 126 0 0 2 2 1 0 0 0 0 0 0 1D 151 126 0 0 2 2 1 0 0 0 0 0 0 1D 151 126 0 0 2 1 1 0 0 0 0 0 0 1D 151 126 0 0 2 2 1 0 0 0 0 0 0 1D 151 126 0 0 2 1 1 0 0 0 0 0 0 1D 151 126 0 0 2 1 1 0 0 0 0 0 0 0 1D 151 126 0 0 2 1 1 0 0 0 0 0 0 0 1D 151 126 0 0 2 1 1 0 0 0 0 0 0 0 1D 151 127 0 0 0 0 1 10 10 163 128 1 1 0 0 0 0 0 0 0 0 1D 168 129 120 0 2 1 1 0 0 0 0 0 0 0 1D 168 121 121 1 0 0 0 0 0 0 0 0 1D 168 121 122 0 2 1 1 0 0 0 0 0 0 0 1D 169 121 125 0 2 3 3 6 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 0 1D 177 121 150 1 0 0 0 0 0 0 0 0 0 0 0 1D 177	0	63		1					D	125
0 65	0			1						126 127
0 65		64		1					D	128
0 66	0	65		1					D D	130
0 67		66								
0 68	0			1					D	133
0 68	0			1						
106		68		1					D	136
106	106		1			0	0	0		
112 78 1 1 0 0 0 10001D 142 112 0 2 4 0 0 0 1D 143 112 0 2 14 0 0 0 0 1D 144 126 96 1 1 0 0 0 0 1D 145 126 98 1 1 0 0 0 0 1D 147 126 98 1 1 0 0 0 0 1D 147 126 102 1 1 0 0 0 0 1D 149 126 107 1 1 0 0 0 0 1D 150 126 107 1 1 0 0 0 0 1D 152 126 111 1 1 0 0 0<			1	1	0	0	0	0	1D	139
112	106	0	2	1		0	0	0		
112			2	4	0				D	
126	112		1 2	1 14	0	0	0		D	144
126	126	96	1	1	0	0	0	0		
126			2 1	1	0	0	0	0	1D	147
126	126	0			2	n	0	0		
126	126 126		2	5	0				D	150
126 111 1 1 0 0 0 0 1D 153 126 0 2 2 4 5 D 155 126 113 1 1 0 0 0 0 1D 155 126 0 2 4 5 D 156 D 156 102 117 1 1 0 0 0 0 10201D 157 102 0 0 1 0 0 0 0 10201D 157 102 0 0 1 0 0 0 0 101D 159 230 118 1 1 0 0 0 0 101D 159 230 0 2 1 0 0 0 0 101D 169 212 119 1 0 0 0 0 0 101D 161 212 120 1 0 0 0	126		1	1	3	0	0	U		152
126	126	111	1	1	0	0	0	0		
126 0 2 4 5 0 0 0 10201D 156 102 117 1 1 0 0 0 0 10201D 157 102 0 0 1 0 0 0 0 101D 158 230 118 1 1 0 0 0 0 101D 159 230 0 2 1 0 0 0 0 101D 159 230 0 2 1 0 0 0 0 101D 159 230 0 2 1 0 0 0 0 101D 161 212 0 2 1 0 0 0 0 101D 163 212 129 1 0 0 0 0 0 101D 165 212 149 1 0			2 1	2 1		0	0	0	1D	155
102	126	0	2	4	5	0	0	0		
230 118 1 1 0 0 0 0 101B 159 230 0 2 1 0 0 0 0 101B 159 212 119 1 0 0 0 0 0 101D 161 212 0 2 1 0 0 0 0 0 101D 163 212 120 1 0 0 0 0 0 101D 163 212 129 1 0 0 0 0 0 101D 165 212 129 1 0 0 0 0 0 101D 165 212 0 2 12 105 0 0 0 101D 165 212 141 1 0 0 0 0 0 101D 167 212 149 1 0 0 0 0 0 101D 170 212 0<				1	0				D	158
212 119 1 0 0 0 0 0 101D 161 212 0 2 1 0 0 0 0 101D 163 212 120 1 0 0 0 0 0 101D 163 212 0 2 9 102 0 0 0 101D 164 212 129 1 0 0 0 0 0 101D 165 212 0 2 12 105 0 0 0 101D 165 212 0 2 8 101 0 0 0 101D 167 212 0 2 8 101 0 0 0 0 101D 167 212 149 1 0 0 0 0 0 101D 169 212 153 1 0 0 0 0 0 101D 173 212	230		1			0	0	O		
212 120 1 0 0 0 0 101D 163 212 0 2 9 102 D 164 212 129 1 0 0 0 0 0 101D 165 212 0 2 12 105 D 166 212 141 1 0 0 0 0 0 101D 167 212 0 2 8 101 D 168 212 149 1 0 0 0 0 0 101D 169 212 0 2 4 100 0 0 0 101D 171 212 0 2 3 8 D 172 212 156 1 0 0 0 0 0 101D 173 212 0 2 3 7 0 0 101D 175 212 162 1 0 0 0	212	119	1	0	0	0	0	0		
212 0 2 9 102 D 164 212 129 1 0 0 0 0 101D 165 212 0 2 12 105 D 166 212 141 1 0 0 0 0 0 101D 167 212 0 2 8 101 D 168 0 0 0 101D 169 212 149 1 0 0 0 0 0 101D 169 212 0 2 4 100 0 0 0 101D 170 212 153 1 0 0 0 0 0 101D 171 212 0 2 3 8 0 0 0 101D 173 212 156 1 0 0 0 0 0 101D 175 212 0 2 3 6 0 0 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>101D</td> <td>163</td>						0	0	0	101D	163
212 0 2 12 105 D 166 212 141 1 0 0 0 0 101D 167 212 0 2 8 101 D 168 212 149 1 0 0 0 0 0 101D 169 212 0 2 4 100 0 0 0 101D 170 212 153 1 0 0 0 0 0 101D 171 212 0 2 3 8 0 0 0 101D 173 212 156 1 0 0 0 0 0 101D 173 212 0 2 3 7 0 0 0 101D 175 212 0 2 3 6 0 0 0 101D 177 212 0 2 3 6 0 0 0 0 101D	212	0	2	9		0	0	0		
212 141 1 0 0 0 0 0 101B 167 212 0 2 8 101 0 0 0 0 101D 169 212 149 1 0 0 0 0 0 101D 169 212 0 2 4 100 0 0 0 101D 171 212 0 2 3 8 0 0 0 101D 171 212 0 2 3 7 0 0 0 101D 173 212 159 1 0 0 0 0 0 101D 175 212 0 2 3 6 0 0 0 101D 177 212 162 1 0 0 0 0 0 101D 177 212 0 2 3 5 0 0 0 0 101D 177 212			2	12	105				D	166
212 149 1 0 0 0 0 0 101D 169 212 0 2 4 100 0 0 0 170 212 153 1 0 0 0 0 0 101D 171 212 0 2 3 8 0 0 0 101D 173 212 156 1 0 0 0 0 0 101D 173 212 0 2 3 7 0 0 0 101D 175 212 0 2 3 6 0 0 0 101D 177 212 162 1 0 0 0 0 0 101D 177 212 0 2 3 5 0 0 0 101D 177 212 0 2 3 5 0 0 0 0 101D 177 212 0 2	212	141	1			0	0	0		
212 0 2 4 10 0 0 0 0 101D 171 212 0 2 3 8 0 0 0 101D 173 212 156 1 0 0 0 0 0 101D 173 212 0 2 3 7 0 0 0 101D 175 212 159 1 0 0 0 0 0 101D 175 212 0 2 3 6 0 0 0 101D 177 212 162 1 0 0 0 0 0 101D 177 212 0 2 3 5 0 0 0 101D 177 212 0 2 3 5 0 0 0 101D 178 212 0 2 3 5 0 0 0 0 0 0 0 0 0 <td></td> <td>149</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>101D</td> <td>169</td>		149	1	0	0	0	0	0	101D	169
212 0 2 3 8 D 172 212 156 1 0 0 0 0 0 101D 173 212 0 2 3 7 D 174 212 159 1 0 0 0 0 0 101D 175 212 0 2 3 6 D 176 212 162 1 0 0 0 0 0 101D 177 212 0 2 3 5 D 178 212 162 1 0 0 0 0 0 101D 177 212 0 2 3 5			2 1			0	0	0		171
212	212	0	2	3	8					
212 159 1 0 0 0 0 0 101B 175 212 0 2 3 6 D 176 212 162 1 0 0 0 0 0 101D 177 212 0 2 3 5 D 178 212 0 2 3 5 0 101D 179			1 2	0 3	7	U			D	174
212 162 1 0 0 0 0 101D 177 212 0 2 3 5 D 178 212 0 2 3 5	212	159	1	0		0	0	0		
212 0 2 3 5 D 1/8			1	0	0	0	0	0	101D	177
		0	2	3 0		0	0	0		

212	0	2	2	0				D	180
212 212	167 0	1 2	0 3	0	0	0	0	101D D	181 182
212 212	170 0	1 2	0 3	0	0	0	0	101D D	183 184
212	173	1	0	0	0	0	0	101D	185
212 212	0 176	2 1	3 0	0 0	0	0	0	D 101D	186 187
212 212	0 179	2 1	3	0	0		0	D	188
212	0	2	3	0 0		0		101D D	189 190
212 212	182 0	1 2	0 3	0 0	0	0	0	101D D	191 192
212 212	185 0	1 2	0	0	0	0	0	101D	193
212	188	1	3 0	0 0	0	0	0	D 101D	194 195
212 212	0 191	2 1	3 0	0 0	0	0	0	D 101D	196 197
212 212	0	2	3	Ō				D	198
212	194 0	1 2	0 3	0 0	0	0	.0	101D D	199 200
212 212	197 0	1 2	0 3	0 0	0	0	0	101D D	201 202
212	200	1	0	0	0	0	0	101D	203
212 212	0 202	2 1	2	0 0	0	0	0	D 101D	204 205
212 212	0 205	2	3	0				D	206
212	0	2	3	0 0	0	0	0	101D D	207 208
212 212	208 0	1 2	0 3	0 0	0	0	0	101D D	209
212 212	211 0	1 2	0 3	0	0	0	0	101D	211
212	214	1	0	0	0	0	0	D 101D	212 213
212 212	0 217	2 1	3 0	0 0	0	0	0	D 101D	214 215
212 212	0 220	2 1	3 0	0 0	0	0	0	D	216
212 212	0 222	2	2	0				101D D	217 218
212	0	1 2	0 2	0 0	0	0	0	101D D	219 220
212 212	224 0	1 2	0 1	0 0	0	0	0	101D	221
212 212	225	1	0	0	0	0	0	D 101D	222 223
212	0 228	2 1	3 0	0 0	0	0	0	D 101D	224 225
212 212	0 231	2 1	3 0	0 0	0	0		D	226
212 212	0	2	3	0			0	101D D	227 228
212	234 0	1 2	0 3	0 0	0	0	0	101D D	229 230
212 212	237 0	1 2	0 3	0 0	0	0	0	101D	231
212 212	240	1 2	0	0	0	0	0	D 101D	232 233
212	243	1	3 0	0 0	0	0	0	D 101D	234 235
212 212	0 246	2 1	3 0	0 0	0			D	236
212 212	0	2	3	0		0	0	101D D	237 238
212	249 0	1 2	0 3	0 0	0	0	0	101D D	239 240
212 212	252 0	1 2	0 6	0	0	0	0	101D	241
212 212	258	1	0	0	0	0	0	D 101D	242 243
212	0 261	2 1	3 0	2 0	0	0	0	D 101D	244 245
						-	-	TO TD	447

212
212 263
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212 279 1 0 2 3 0 0 0 0 101D 261 212 282 1 0 0 0 0 0 0 101D 261 212 282 1 0 0 0 0 0 0 101D 261 212 2 0 2 3 0 0 0 0 0 1D 263 408 285 1 1 0 0 0 0 0 0 1D 263 408 0 0 0 1 0 0 0 0 0 0 0 1D 263 408 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
212
408 285 1 1 0 0 0 0 0 D 264 408 0 0 1 0 D 265 0 286 D 266 0 1 D 267 0 287 D 268 0 288 D 269 0 289 D 270 0 290 D 271 0 291 D 275 0 292 D 278 0 292 D 278 0 293 D 278
408 285 1 1 0 D 264 408 0 0 1 0 D 265 0 286 D 266 0 D 267 0 287 D 268 0 D 268 0 D 268 0 D 269 0 288 D 270 0 289 D 271 0 290 D 273 0 291 D 274 0 292 D 275 0 292 D 278 0 292 D 278 0 278
1 D 265 0 286 0 1 D 266 0 D 267 0 287 0 288 0 1 D 269 0 289 0 289 1 D 271 0 290 1 D 273 0 291 0 291 0 292 0 292 0 278
1 D 267 0 287 0 288 0 288 1 D 269 0 289 0 290 1 D 271 0 291 0 292 0 292 0 292 0 293
0 287
0 288
0 289 D 271 0 289 D 271 0 290 D 273 0 290 D 273 0 291 D 275 0 291 D 275 0 292 D 277 0 292 D 278 0 292 D 278
0 289 1 D 272 0 290 D 273 0 291 D 275 0 291 D 275 0 292 D 277 0 292 D 278 0 292 D 278
0 290 D 273 D 274 D 275 D 275 D 275 D 276 D 277 D 277 D 278 D 278 D 278 D 279
D 275 0 291 0 1 D 276 0 277 0 292 0 1 D 278 0 278
0 1 D 277 0 292 D 278 0 1 D 278
0 292 0 1 1 0 0 0 0 201D 279
0 100 201D 279
10/ 273 1 1 1 2 2
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0 294 1 0 0 0 0 0 10201D 201
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0 0 0 1 0 D 284
406 296 1 0 286
406 0 0 1 10 0 0 0 101D 287
404 0 0 1 0 D 288
406 298 0 1 10 D 290
412 299 1 1 0 0 0 0 1D 291
412 0 0 1 0 1 0 1 10 293
414 300 1 1 0 D 294
100 301 1 1 0 0 37 0 1D 295
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7P 4 0; 9P 5
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308, 0, 6HPERSON, 6, 13, 13, 17, 13, 21, 23,
0; 0;

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16
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0;
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                                                                                     17
0:
                                                                            35P
                                                                                     18
0:
                                                                                     19
                                                                            37P
124,0.0,1.0,0.0,5.5,-1.0,0.0,0.0,7.5,0.0,0.0,1.0,0.0;
                                                                            39P
                                                                                     20
0;
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                                                                            41P
0;
                                                                            43P
                                                                                     22
0;
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                                                                            45P
0:
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                                                                            47P
0:
                                                                            49P
                                                                                     25
0;
                                                                                     26
                                                                            51P
0;
                                                                                     27
                                                                            53P
0;
                                                                                     28
                                                                            55P
410,5,1.0,0,0,0,0,0,0;
                                                                            57P
                                                                                     29
110,3.0,10.0,0.0,3.5,9.5,0.0;
                                                                                     30
                                                                            59P
110,3.0,9.5,0.0,3.0,10.0,0.0;
                                                                                     31
                                                                            61P
124,-1.0,0.0,0.0,9.75,0.0,-1.0,0.0,9.5,0.0,0.0,1.0,0.0;
                                                                                     32
                                                                            63P
104,16.0,0.0,-64.0,0.0,0.0,-1.0,0.0,0.5,-0.216506,0.5,0.216506;
                                                                            65P
                                                                                     33
124?0.0,-1.0,0.0,11.5,1.0,0.0,0.0,9.5,0.0,0.0,1.0,0.0;
                                                                                     34
                                                                            67P
104,0.0,0.0,1.0,-1.0,0.0,0.0,0.0,0.25,-0.5,0.25,0.5;
                                                                            69P
                                                                                     35
124,0.0,-1.0,0.0,5.5,1.0,0.0,0.0,9.5,0.0,0.0,1.0,0.0;
                                                                            71P
                                                                                     36
104,0.0625,0.0,0.25,0.0,0.0,-0.015625,0.0,0.0,-0.25,0.0,-0.25;
                                                                            73P
                                                                                     37
110,1.5,8.0,0.0,1.5,7.0,0.0;
                                                                            75P
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124,1.0,0.0,0.0,7.5,0.0,1.0,0.0,9.5,0.0,0.0,1.0,0.0;
                                                                            77P
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104,0.0625,0.0,0.25,0.0,0.0,-0.015625,0.0,0.5,0.0,0.5,0.0;
                                                                                     40
                                                                            79P
100,0.0,1.5,9.5,1.5,9.0,1.0,9.5;
                                                                            81P
                                                                                     41
110, 13.0, 3.0, 0.0, 13.0, 4.0, 0.0;
                                                                            83P
                                                                                     42
110,13.0,4.0,0.0,14.0,4.0,0.0;
                                                                            85P
                                                                                     43
110,14.0,4.0,0.0,14.0,3.0,0.0;
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                                                                            87P
                                                                                     45
110,0.5,0.5,0.0,16.5,0.5,0.0;
                                                                            89P
                                                                            91P
                                                                                     46
110,0.5,2.5,0.0,16.5,2.5,0.0;
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                                                                            95P
                                                                                     48
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                                                                            99P
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                                                                           101P
                                                                                     51
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                                                                                     52
                                                                                     53
110,4.5,0.5,0.0,4.5,10.5,0.0;
                                                                           105P
                                                                           107P
110,6.5,0.5,0.0,6.5,10.5,0.0;
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                                                                           109P
110,10.5,0.5,0.0,10.5,10.5,0.0;
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110,14.5,0.5,0.0,14.5,10.5,0.0;
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                                                                           115P
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0;
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0;
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0;
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0;
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0;
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                                                                                     66
0;
                                                                           133P
                                                                                     67
                                                                           135P
                                                                                     68
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13.9649,9.4341,13.9382,9.4909,13.9045,9.5439,
                                                                           137P
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13.8645,9.5923,13.8187,9.6353,13.7679,9.6722,
                                                                           137P
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13.7129,9.7024,13.6545,9.7255,13.5937,9.7411,
                                                                           137P
                                                                                     72
13.5314,9.749,13.4686,9.749,13.4063,9.7411,13.3455,
                                                                                     73
                                                                           137P
9.7255,13.2871,9.7024,13.2321,9.6722,13.1813,9.6353,
                                                                                     74
                                                                           137P
13.1355,9.5923,13.0955,9.5439,13.0618,9.4909,
                                                                           137P
                                                                                     75
13.0351, 9.4341, 13.0157, 9.3743, 13.0039, 9.3127, 13.0, 9.25;
                                                                           137P
                                                                                     76
106,1,5,0.0,15.0,10.0,16.0,10.0,16.0,9.25,15.0,9.25,15.0,10.0;
                                                                           139P
                                                                                     77
112,3,1,2,2,0.0,1.0,2.0,3.5,0.5625,0.0,-0.0625,9.5,-0.3125,
                                                                           141P
                                                                                     78
0.0,0.0625,0.0,0.0,0.0,0.0,4.0,0.375,-0.1875,0.0625,
                                                                           141P
                                                                                     79
9.25, -0.125, 0.1875, -0.0625, 0.0, 0.0, 0.0, 0.0, 4.25, 0.1875, 0.0,
                                                                           141P
                                                                                     80
0.375,9.25,0.0625,0.0,-0.375,0.0,0.0,0.0,0.0;
                                                                           141P
                                                                                     81
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112,3,1,2,8,0.0,1.0,2.0,3.0,4.0,5.0,6.0,7.0,8.0,3.0,0.870858,
                                                                            82
                                                                   143P
                                                                            83
                                                                    143P
0.0,-0.120858,8.0,-0.249075,0.0,0.0,0.0,0.0,
                                                                            84
                                                                    143P
0.0,0.0,3.75,0.508284,-0.362575,0.10429,7.75,-0.251843,
                                                                            85
                                                                    143P
0.0,0.0,0.0,0.0,0.0,0.0,4.0,0.0960054,
-0.0497036, -0.0463009, 7.5, -0.243556, 0.0110455, -0.0174891, 0.0,
                                                                    143P
                                                                            86
0.0, 0.0, 0.0, 4.0, -0.142304, -0.188606, 0.0809104, 7.25, -0.273932,
                                                                            87
                                                                    143P
                                                                            88
-0.0414219,0.065354,0.0,0.0,0.0,0.0,3.75,-0.276786,0.0541248,
                                                                    143P
                                                                            89
-0.0273387,7.0,-0.160714,0.15464,0.0,0.0,0.0,0.0,0.0,0.0,
                                                                    143P
                                                                            90
                                                                    143P
3.5,-0.250552,-0.0278912,0.0284429,7.0,0.16679,0.172863,
                                                                            91
-0.0896533, 0.0, 0.0, 0.0, 0.0, 3.25, -0.221006, 0.0574377, 0.163568,
                                                                    143P
7.25,0.243557,-0.0960965,0.10254,0.0,0.0,0.0,0.0,3.25,0.384573,
                                                                            92
                                                                    143P
0.548141,-0.182714,7.5,0.358985,0.211525,-0.0705097,0.0,0.0,0.0,
                                                                            93
                                                                    143P
                                                                            94
                                                                    143P
0.0,4.0,0.932714,0.0,-1.09628,8.0,0.570505,
                                                                            95
                                                                    143P
0.0,-0.423058,0.0,0.0,0.0,0.0;
126,1,1,1,0,1,0,0.0,0.0,1.0,1.0,1.0,1.0,9.0,7.5,0.0,10.0,8.0,
                                                                            96
                                                                    145P
                                                                            97
                                                                    145P
0.0,0.0,1.0,0.0,0.0,1.0;
98
                                                                    147P
                                                                            99
1.0,1.0,1.0,1.0,1.0,1.0,12.0,7.5,0.0,12.0,7.8341,0.0,11.721,
                                                                    147P
8.13295,0.0,11.279,8.13295,0.0,11.0,7.8341,0.0,11.0,7.5,0.0,0.0,
                                                                           100
                                                                    147P
                                                                           101
                                                                    147P
1.0,0.0,0.0,1.0;
126,8,3,1,0,1,0,0.0,0.0,0.0,0.0,1.0,2.0,3.0,4.0,5.0,6.0,6.0,6.0,
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                                                                    149P
6.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,7.0,7.0,7.0,0.0,7.01111,
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                                                                    149P
7.15385,0.0,7.03333,7.46154,0.0,6.86667,8.15385,0.0,7.5,7.92308,
                                                                    149P
                                                                           104
0.0,8.13333,8.15385,0.0,7.96667,7.46154,0.0,7.98889,7.15385,0.0,
                                                                            105
                                                                    149P
                                                                            106
                                                                    149P
8.0,7.0,0.0,0.0,6.0,0.0,0.0,1.0;
107
                                                                    151P
1.0,1.0,1.0,1.0,1.0,1.0,14.0,7.5,0.0,14.0,7.66705,0.0,13.721,
                                                                    151P
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7.81647,0.0,13.279,7.81647,0.0,13.0,7.66705,0.0,13.0,7.5,0.0,
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                                                                    151P
                                                                    151P
                                                                            110
0.0,1.0,0.0,0.0,1.0;
153P
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                                                                    153P
0.0,15.5,7.25,0.0,15.0,7.75,0.0,0.0,1.0,0.0,0.0,1.0;
113
                                                                    155P
                                                                    155P
                                                                            114
1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.25,5.71651,0.0,1.49816,
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5.57323,0.0,1.52537,5.52714,0.0,1.49104,5.50133,0.0,1.51981,
                                                                    155P
5.4700,0.0,1.5040,5.4302,0.0,1.25,5.2835,0.0,0.0,1.0,0.0,0.0,1.;
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                                                                    155P
                                                                    157P
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102,4,81,83,85,87;
                                                                    159P
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230,157,1,13.7172,2.99,0.0,0.2,0.785385,0;
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212,1,6,1.0,0.125,1,1.0461,4.71,0,1,4.0,6.0,0.0,6HSIMPLE;
                                                                    161P
                                                                            120
212,9,2,0.22,0.125,1,1.5708,0.0,0,0,8.65625,3.5625,0.0,2HIM,
                                                                    163P
                                                                            121
                                                                    163P
3,0.35,0.125,1,1.5708,0.0,0,9.03125,3.65625,0.0,3HBED,
                                                                    163P
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3,0.34,0.125,1,1.5708,0.0,0,9.03125,3.46875,0.0,3HDED,
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                                                                    163P
4,0.44,0.125,1,1.5708,0.0,0,0,8.96875,3.5625,0.0,4H----,
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                                                                    163P
1,0.1,0.125,1002,1.5708,0.0,0,0,9.53125,3.5625,0.0,1Hi,
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                                                                    163P
2,0.24,0.125,1,1.5708,0.0,0,0,9.71875,3.5625,0.0,2HFR,
                                                                            126
3,0.35,0.125,1,1.5708,0.0,0,0,10.0938,3.65625,0.0,3HACT,
                                                                    163P
                                                                            127
                                                                    163P
3,0.32,0.125,1,1.5708,0.0,0,0,10.0938,3.46875,0.0,3HION,
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                                                                    163P
4,0.44,0.125,1,1.5708,0.0,0,0,10.0313,3.5625,0.0,4H----;
                                                                            129
212,12,2,0.24,0.125,1,1.5708,0.0,0,0,10.625,3.625,0.0,2HFR,
                                                                    165P
                                                                            130
3,0.34,0.125,1,1.5708,0.0,0,0,11.0313,3.71875,0.0,3HSUP,
                                                                    165P
                                                                            131
3,0.35,0.125,1,1.5708,0.0,0,0,11.0313,3.53125,0.0,3HSUB,
                                                                    165P
                                                                    165P
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4,0.44,0.125,1,1.5708,0.0,0,0,10.9688,3.625,0.0,4H----,
                                                                    165P
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1,0.12,0.125,1,1.5708,0.0,0,0,11.4375,4.1875,0.0,1HT,
1,0.12,0.125,1,1.5708,0.0,0,0,11.8125,4.28125,0.0,1HO,
                                                                    165P
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1,0.11,0.125,1,1.5708,0.0,0,0,11.8125,4.09375,0.0,1HP,
                                                                    165P
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                                                                            136
3,0.33,0.125,1,1.5708,0.0,0,0,11.6875,4.1875,0.0,3H---,
                                                                    165P
                                                                            137
2,0.24,0.125,1,1.5708,0.0,0,0,11.4375,3.0625,0.0,2HBO,
                                                                    165P
                                                                    165P
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2,0.24,0.125,1,1.5708,0.0,0,0,11.7813,3.15625,0.0,2HTT,
                                                                    165P
                                                                            139
2,0.26,0.125,1,1.5708,0.0,0,0,11.7813,2.96875,0.0,2HOM,
3,0.33,0.125,1,1.5708,0.0,0,0,11.75,3.0625,0.0,3H---;
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                                                                    165P
212,8,4,0.46,0.125,1,1.5708,0.0,0,0,7.0,3.8125,0.0,4HDUAL,
                                                                            141
                                                                    167P
2,0.24,0.125,1,1.5708,0.0,0,7.625,3.90625,0.0,2HTO,
                                                                    167P
                                                                            142
                                                                    167P
                                                                            143
1,0.11,0.125,1,1.5708,0.0,0,0,7.6875,3.71875,0.0,1HP,
                                                                    167P
                                                                            144
 3,0.33,0.125,1,1.5708,0.0,0,0,7.5625,3.8125,0.0,3H---,
                                                                            145
                                                                    167P
 5,0.56,0.125,1,1.5708,0.0,0,0,7.0,3.25,0.0,5HSTACK,
 3,0.36,0.125,1,1.5708,0.0,0,7.6875,3.34375,0.0,3HBOT,
                                                                            146
                                                                    167P
                                                                    167P
 3,0.38,0.125,1,1.5708,0.0,0,7.6875,3.15625,0.0,3HTOM,
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167P
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 4,0.44,0.125,1,1.5708,0.0,0,0,7.65625,3.25,0.0,4H----;
                                                                                      149
212,4,1,0.1133,0.125,1,1.5708,0.0,0,0,5.0742,3.5625,0.0,1HS,
                                                                             169P
 4,0.47,0.125,1,1.5708,0.0,0,5.1875,3.65625,0.0,4HFRAC,
                                                                             169P
                                                                                      150
                                                                                     151
 4,0.44,0.125,1,1.5708,0.0,0,0,5.1875,3.46875,0.0,4HTION,
                                                                             169P
 4,0.44,0.125,1,1.5708,0.0,0,0,5.1875,3.5625,0.0,4H----;
                                                                             169P
                                                                                      152
                                                                                      153
 212,3,1,0.1162,0.125,1,1.5708,0.0,0,0,3.8833,3.75,0.0,1HM,5,
                                                                             171P
 0.5376,0.125,1,1.5708,0.0,0,0,3.46,3.5625,0.0,5HSTACK,5,0.5184,
                                                                             171P
                                                                                     154
 0.125,1,1.5708,0.0,0,0,3.48167,3.375,0.0,5HRIGHT;
                                                                             171P
                                                                                      155
 212,3,1,0.1162,0.125,1,1.5708,0.0,0,0,1.44167,3.75,0.0,1HM,5,
                                                                             173P
                                                                                     156
 0.5376, 0.125, 1, 1.5708, 0.0, 0, 0, 1.23, 3.5625, 0.0, 5HSTACK, 6, 0.648,
                                                                             173P
                                                                                     157
                                                                                     158
 0.125,1,1.5708,0.0,0,0,1.1775,3.375,0.0,6HCENTER;
                                                                             173P
 212,3,1,0.1162,0.125,1,1.5708,0.0,0,0,15.0,5.75,0.0,1HM,5,
                                                                             175P
                                                                                     159
0.5376, 0.125, 1, 1.5708, 0.0, 0, 0, 15.0, 5.5625, 0.0, 5HSTACK, 4, 0.4224,
                                                                             175P
                                                                                     160
0.125,1,1.5708,0.0,0,0,15.0,5.375,0.0,4HLEFT;
                                                                             175P
                                                                                     161
212,3,1,0.1133,0.125,1,1.5708,0.0,0,0,13.0,5.625,0.0,1HS,5,
                                                                             177P
                                                                                     162
0.5568, 0.125, 1, 1.5708, 0.0, 0, 0, 13.1133, 5.71875, 0.0, 5HSUPER, 3,
                                                                             177P
                                                                                     163
0.343,0.125,1,1.5708,0.0,0,0,13.1133,5.53125,0.0,3HSUB;
                                                                             177P
                                                                                     164
212,2,14,1.099,0.07,1,1.5708,0.0,0,0,12.9505,2.74,0.0,14HSECTION
                                                                             179P
                                                                                     165
ED AREA, 5, 0.308, 0.07, 1, 1.5708, 0.0, 0, 0, 13.346, 2.635, 0.0, 5H(230);
                                                                             179P
                                                                                     166
212,2,16,1.26,0.07,1,1.5708,0.0,0,0,10.87,2.75,0.0,16HNOTE - SUP
                                                                             181P
                                                                                     167
ER/SUB, 23, 1.652, 0.07, 1, 1.5708, 0.0, 0, 0, 10.674, 2.645, 0.0, 23HFRACTI
                                                                             181P
                                                                                     168
ON (212 FORM 105);
                                                                             181P
                                                                                     169
 212,2,18,1.442,0.07,1,1.5708,0.0,0,0,8.779,2.75,0.0,18HNOTE - FO
                                                                             183P
                                                                                     170
NT/DOUBLE, 23, 1.645, 0.07, 1, 1.5708, 0.0, 0, 0, 8.6775, 2.645, 0.0, 23HFRA
                                                                             183P
                                                                                     171
CTION (212 FORM 102);
                                                                             183P
                                                                                     172
 212,2,17,1.316,0.07,1,1.5708,0.0,0,0,6.842,2.75,0.0,17HNOTE - DU
                                                                            185P
                                                                                     173
AL STACK, 23, 1.624, 0.07, 1, 1.5708, 0.0, 0, 0, 6.688, 2.645, 0.0, 23HFRACT
                                                                            185P
                                                                                     174
ION (212 FORM 101);
                                                                            185P
                                                                                     175
 212,2,13,1.015,0.07,1,1.5708,0.0,0,0,4.9925,2.75,0.0,13HNOTE - S
                                                                            187P
                                                                                     176
IMPLE, 23, 1.652, 0.07, 1, 1.5708, 0.0, 0, 0, 4.674, 2.645, 0.0, 23HFRACTION
                                                                                     177
                                                                            187P
  (212 FORM 100);
                                                                                     178
                                                                            187P
212,2,18,1.4,0.07,1,1.5708,0.0,0,0,2.8,2.75,0.0,18HNOTE - MULTI
                                                                            189P
                                                                                     179
STACK, 23, 1.652, 0.07, 1, 1.5708, 0.0, 0, 0, 2.674, 2.645, 0.0, 23HRIGHT JU
                                                                            189P
                                                                                     180
ST (212 FORM 8);
                                                                            189P
                                                                                     181
212,2,18,1.4,0.07,1,1.5708,0.0,0,0.8,2.75,0.0,18HNOTE - MULTI
                                                                            191P
                                                                                     182
STACK, 22, 1.603, 0.07, 1, 1.5708, 0.0, 0, 0.698501, 2.645, 0.0, 22HCENT
                                                                            191P
                                                                                     183
JUST (212 FORM 7);
                                                                            191P
                                                                                     184
212,2,18,1.4,0.07,1,1.5708,0.0,0,0,14.8,4.75,0.0,18HNOTE - MULTI
                                                                            193P
                                                                                     185
 STACK, 22, 1.603, 0.07, 1, 1.5708, 0.0, 0, 0, 14.6985, 4.645, 0.0, 22HLEFT
                                                                            193P
                                                                                     186
JUST (212 FORM 6);
                                                                            193P
                                                                                     187
212,2,16,1.26,0.07,1,1.5708,0.0,0,0,12.87,4.75,0.0,16HNOTE - SUP
                                                                            195P
                                                                                     188
ER/SUB, 19, 1.351, 0.07, 1, 1.5708, 0.0, 0, 0, 12.8245, 4.645, 0.0, 19HSCRIP
                                                                            195P
                                                                                     189
T (212 FORM 5);
                                                                            195P
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212,2,21,1.652,0.07,1,1.5708,0.0,0,0,2.674,4.75,0.0,21HGENERAL N
                                                                            197P
                                                                                     191
OTE - SIMPLE, 12, 0.826, 0.07, 1, 1.5708, 0.0, 0, 0, 3.087, 4.645, 0.0, 12H(
                                                                            197P
                                                                                     192
212 FORM 0);
                                                                            197P
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212,2,14,1.141,0.07,1,1.5708,0.0,0,0,4.9295,6.75,0.0,14HTRANSFOR
                                                                            199P
                                                                                     194
MATION, 23, 1.617, 0.07, 1, 1.5708, 0.0, 0, 0, 4.6915, 6.645, 0.0, 23HMATRIX
                                                                            199P
                                                                                     195
 D=1 (124 \text{ FORM } 0);
                                                                            199P
                                                                                     196
212,2,17,1.33,0.07,1,1.5708,0.0,0,0,2.835,6.75,0.0,17HPARAMETRIC
                                                                            201P
                                                                                     197
 SPLINE, 11, 0.728, 0.07, 1, 1.5708, 0.0, 0, 0, 3.136, 6.645, 0.0, 11 HCURVE
                                                                            201P
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                                                                            201P
                                                                                     199
212,1,10,0.63,0.07,1,1.5708,0.0,0,0,1.185,6.75,0.0,10HLINE (110)
                                                                            203P
                                                                                     200
                                                                            203P
                                                                                     201
212,2,18,1.414,0.07,1,1.5708,0.0,0,0,14.793,8.75,0.0,18HSIMPLE C
                                                                            205P
                                                                                     202
LOSED AREA, 13, 0.917, 0.07, 1, 1.5708, 0.0, 0, 0, 15.0415, 8.645, 0.0, 13H(
                                                                            205P
                                                                                     203
106 FORM 63);
                                                                            205P
                                                                                     204
212,2,19,1.491,0.07,1,1.5708,0.0,0,0,12.7545,8.75,0.0,19HLINEAR
                                                                            207P
                                                                                    205
PLANAR CURVE, 13, 0.861, 0.07, 1, 1.5708, 0.0, 0, 0, 13.0695, 8.645, 0.0,
                                                                            207P
                                                                                    206
13H(106 FORM 11);
                                                                            207P
                                                                                    207
212,2,20,1.547,0.07,1,1.5708,0.0,0,0,10.7265,8.75,0.0,20HCONIC A
                                                                            209P
                                                                                    208
RC - PARABOLA, 12, 0.84, 0.07, 1, 1.5708, 0.0, 0, 0, 11.08, 8.645, 0.0, 12H(
                                                                            209P
                                                                                    209
104 FORM 3);
                                                                            209P
                                                                                    210
212,2,21,1.638,0.07,1,1.5708,0.0,0,0,8.681,8.75,0.0,21HCONIC ARC
                                                                            211P
                                                                                    211
 - HYPERBOLA, 12, 0.833, 0.07, 1, 1.5708, 0.0, 0, 0, 9.0835, 8.645, 0.0, 12H
                                                                            211P
                                                                                    212
(104 FORM 2);
                                                                            211P
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212,2,19,1.449,0.07,1,1.5708,0.0,0,0,6.7755,8.75,0.0,19HCONIC AR
                                                                           213P
                                                                                    214
                                                                           213P
                                                                                    215
C - ELLIPSE, 12, 0.812, 0.07, 1, 1.5708, 0.0, 0, 0, 7.094, 8.645, 0.0, 12H(1
                                                                           213P
                                                                                    216
04 FORM 1);
212,2,19,1.477,0.07,1,1.5708,0.0,0,0,4.7615,8.75,0.0,19HCONIC AR
                                                                                    217
                                                                           215P
                                                                                    218
C - GENERAL, 12, 0.84, 0.07, 1, 1.5708, 0.0, 0, 0, 5.08, 8.645, 0.0, 12H(104
                                                                           215P
                                                                                    219
                                                                           215P
212,1,21,1.547,0.07,1,1.5708,0.0,0,0,2.7265,8.75,0.0,21HCOMPOSIT
                                                                                    220
                                                                           217P
                                                                                    221
                                                                           217P
E CURVE (102);
212,1,18,1.295,0.07,1,1.5708,0.0,0,0.8525,8.75,0.0,18HCIRCULAR
                                                                                    222
                                                                           219P
                                                                                    223
                                                                           219P
 ARC (100);
212,1,6,0.6188,0.125,1,1.5708,0.0,0,0,3.0,5.625,0.0,6HSIMPLE;
                                                                           221P
                                                                                    224
212,2,23,1.792,0.07,1,1.5708,0.0,0,0,6.604,6.75,0.0,23HRATIONAL
                                                                           223P
                                                                                    225
                                                                           223P
                                                                                    226
B-SPLINE CURVE, 12, 0.833, 0.07, 1, 1.5708, 0.0, 0, 0, 7.0835, 6.645, 0.0,
                                                                                    227
                                                                           223P
12H(126 FORM 0);
212,2,23,1.792,0.07,1,1.5708,0.0,0,0,8.604,6.75,0.0,23HRATIONAL
                                                                                    228
                                                                           225P
B-SPLINE CURVE, 17, 1.176, 0.07, 1, 1.5708, 0.0, 0, 0, 8.912, 6.645, 0.0,
                                                                           225P
                                                                                    229
                                                                           225P
                                                                                    230
17HLINE (126 FORM 1);
212,2,23,1.792,0.07,1,1.5708,0.0,0,0,10.604,6.75,0.0,23HRATIONAL
                                                                           227P
                                                                                    231
                                                                           227P
                                                                                    232
 B-SPLINE CURVE, 25, 1.834, 0.07, 1, 1.5708, 0.0, 0, 0, 10.583, 6.645, 0.0,
                                                                           227P
                                                                                    233
25HCIRCULAR ARC (126 FORM 2);
212,2,23,1.792,0.07,1,1.5708,0.0,0,0,12.604,6.75,0.0,23HRATIONAL
                                                                           229P
                                                                                    234
                                                                           229P
                                                                                    235
 B-SPLINE CURVE, 27, 1.974, 0.07, 1, 1.5708, 0.0, 0, 0, 12.513, 6.645, 0.0,
                                                                           229P
                                                                                    236
27HELLIPTICAL ARC (126 FORM 3);
                                                                           231P
                                                                                    237
212,2,23,1.792,0.07,1,1.5708,0.0,0,0,14.604,6.75,0.0,23HRATIONAL
 B-SPLINE CURVE, 26, 1.911, 0.07, 1, 1.5708, 0.0, 0, 0, 14.5445, 6.645,
                                                                           231P
                                                                                    238
                                                                           231P
                                                                                    239
0.0,26HPARABOLIC ARC (126 FORM 4);
212,2,23,1.792,0.07,1,1.5708,0.0,0,0.604002,4.75,0.0,23HRATION
                                                                           233P
                                                                                    240
                                                                                    241
AL B-SPLINE CURVE, 27, 2.002, 0.07, 1, 1.5708, 0.0, 0, 0, 0.499002, 4.645,
                                                                           233P
                                                                           233P
                                                                                    242
0.0,27HHYPERBOLIC ARC (126 FORM 5);
212,2,16,1.239,0.07,1,1.5708,0.0,0,0.8805,0.75,0.0,16HSINGLE S
                                                                                    243
                                                                           235P
UBFIGURE, 14, 1.068, 0.07, 1, 1.5708, 0.0, 0, 0, 0.946, 0.645, 0.0, 14HINSTA
                                                                                    244
                                                                           235P
                                                                                    245
                                                                           235P
NCE (408);
212,2,21,1.68,0.07,1,1.5708,0.0,0,0,2.66,0.75,0.0,21HRECTANGULAR
                                                                                    246
                                                                           237P
                                                                                    247
 SUBFIGURE, 14,1.026,0.07,1,1.5708,0.0,0,0,2.967,0.645,0.0,14HINS
                                                                           237P
                                                                           237P
                                                                                    248
TANCE (412);
212,2,18,1.414,0.07,1,1.5708,0.0,0,0,4.793,0.75,0.0,18HCIRCULAR
                                                                           239P
                                                                                    249
SUBFIGURE, 14, 1.033, 0.07, 1, 1.5708, 0.0, 0, 0, 5.0335, 0.645, 0.0, 14HINS
                                                                                    250
                                                                           239P
                                                                                    251
                                                                           239P
TANCE (414);
                                                                           241P
                                                                                    252
212,5,17,1.746,0.09,1,1.5708,0.0,0,0,14.627,1.75,0.0,17HCALS TES
                                                                                    253
T NETWORK, 11, 1.098, 0.09, 1, 1.5708, 0.0, 0, 0, 14.951, 1.615, 0.0, 11HMIL
                                                                           241P
                                                                                    254
-D-28000,7,0.666,0.09,1,1.5708,0.0,0,0,15.167,1.48,0.0,7HCLASS I
                                                                           241P
                                                                                    255
,17,1.755,0.09,1,1.5708,0.0,0,0,14.6225,1.345,0.0,17HREFERENCE D
                                                                           241P
RAWING, 8, 0.783, 0.09, 1, 1.5708, 0.0, 0, 0, 15.1085, 1.21, 0.0, 8HI-ENTITY
                                                                           241P
                                                                                    256
                                                                                    257
                                                                           241P
212,3,2,0.2002,0.125,1,1.5708,0.0,0,0,7.0,5.625,0.0,2HIM,3,0.3,
                                                                           243P
                                                                                    258
0.125,1002,1.5708,0.0,0,0,7.2,5.625,0.0,3Hbed,3,0.2992,0.125,1,
                                                                           243P
                                                                                    259
                                                                           243P
                                                                                    260
1.5708,0.0,0,0,7.5,5.625,0.0,3HDED;
212,2,1,0.1133,0.125,1,1.5708,0.0,0,0,11.0,5.625,0.0,1HS,3,
                                                                           245P
                                                                                    261
                                                                                    262
0.343,0.125,1,1.5708,0.0,0,0,11.1133,5.53125,0.0,3HSUB;
                                                                           245P
                                                                           247P
                                                                                    263
212,2,1,0.1133,0.125,1,1.5708,0.0,0,0,9.0,5.625,0.0,1HS,5,
                                                                                    264
                                                                           247P
0.5568, 0.125, 1, 1.5708, 0.0, 0, 0, 9.1133, 5.71875, 0.0, 5HSUPER;
                                                                           249P
                                                                                    265
212,2,4,0.4324,0.125,1,1.5708,0.0,0,0,5.0,5.625,0.0,4HDUAL,5,
                                                                                    266
                                                                           249P
0.5376,0.125,1,1.5708,0.0,0,5.0,5.4375,0.0,5HSTACK;
                                                                                    267
                                                                           251P
212,2,16,1.246,0.07,1,1.5708,0.0,0,0,10.877,4.75,0.0,16HNOTE - S
                                                                                    268
UBSCRIPT, 12, 0.826, 0.07, 1, 1.5708, 0.0, 0, 0, 11.087, 4.645, 0.0, 12H(212
                                                                           251P
                                                                           251P
                                                                                    269
 FORM 4);
212,2,18,1.407,0.07,1,1.5708,0.0,0,0,8.7965,4.75,0.0,18HNOTE - S
                                                                           253P
                                                                                    270
                                                                                    271
UPERSCRIPT, 12, 0.826, 0.07, 1, 1.5708, 0.0, 0, 0, 9.087, 4.645, 0.0, 12H(21
                                                                            253P
                                                                                    272
                                                                           253P
2 FORM 3);
                                                                            255P
                                                                                    273
212,2,20,1.575,0.07,1,1.5708,0.0,0,0,6.7125,4.75,0.0,20HNOTE - I
                                                                            255P
                                                                                    274
MBEDDED FONT, 19, 1.365, 0.07, 1, 1.5708, 0.0, 0, 0, 6.8175, 4.645, 0.0, 19H
                                                                                    275
                                                                            255P
CHANGE (212 FORM 2);
                                                                                    276
212,2,17,1.316,0.07,1,1.5708,0.0,0,0,4.842,4.75,0.0,17HNOTE - DU
                                                                            257P
                                                                                    277
                                                                            257P
AL STACK, 12, 0.798, 0.07, 1, 1.5708, 0.0, 0, 0, 5.101, 4.645, 0.0, 12H(212)
                                                                            257P
                                                                                    278
FORM 1);
                                                                                    279 5
212,2,22,1.722,0.07,1,1.5708,0.0,0,0,14.639,2.75,0.0,22HINTERCHA
                                                                            259P
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RACTER SPACING, 13, 0.924, 0.07, 1, 1.5708, 0.0, 0, 0, 15.038, 2.645, 0.0,
                                                                              259P
                                                                                       280
13H(406 FORM 18);
                                                                              259P
                                                                                       281
212, 1, 7, 1.3, 0.125, 1, 1.5708, 0.0, 0, 0,
                                                                              261P
                                                                                       282
14.8,3.5,0.0,7HSPACING,
                                                                              261P
                                                                                       283
0,1,289;
                                                                              261P
                                                                                       284
408, 25, 1.5, 1.5, 0.0, 1.0;
                                                                              263P
                                                                                       285
0;
                                                                                       286
                                                                              265P
0;
                                                                              267P
                                                                                       287
0;
                                                                                       288
                                                                              269P
0;
                                                                              271P
                                                                                       289
0;
                                                                                       290
                                                                              273P
0;
                                                                              275P
                                                                                       291
0;
                                                                                       292
                                                                              277P
102,3,59,57,141;
                                                                              279P
                                                                                       293
                                                                              281P
                                                                                       294
0;
                                                                              283P
                                                                                       295
406,2,17.0,11.0;
                                                                              285P
                                                                                       296
404,1,55,0.0,0.0,0,0,1,285;
                                                                              287P
                                                                                       297
406,1,80.0;
                                                                              289P
                                                                                       298
412,25,1.0,3.0,1.0,0.0,2,2,1.0,0.75,0.0,0;
                                                                              291P
                                                                                       299
414,25,3,5.5,1.5,0.0,0.5,0.5236,2.0944,0;
                                                                              293P
                                                                                       300
100,0.0,0.0,0.0,-0.5,0.0,0.5,0.0;
                                                                              295P
                                                                                       301
      16G
                3D
                       296P
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Attachment I

LGTABLE IGES File Printout

CONFORMANCE:						al Illustration S 1 t 1, 20 Dec. 1988. S 2	?
ILLUSTRATION						S 3 S 4	
IDENTIFIER:						Illustration for S 5	5
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1H,,1H;,7HLGT				4HTEST, 3	2,38,6,30	8,15, G 1 G 2	
7HLGTABLE, 1.0 13H890707.090						G 3	
7HFARRELL, 17H		EST NETWO		_		G 4	
410 410	1	0	0 1	0	0	0 000020100D 1 0VIEW 1D 2	
406	0 2	0	0	Ö	0	0 000020001D 3	
406	0	0	1	16	0	0 2D 4	_
404	3	0	0	0	0	0 000000101D 5 0DRAWING 3D 6	
404 212	0 4	0	1 0	0 0	0	0DRAWING 3D 6 0 000000101D 7	
212	0	0	2	ő	Ö	0TX0044 4D 8	
110	6	0	1	0	0	0 000000101D 9	
110	0	0	2	0	0	0TX0044 5D 10 0 000010101D 11	
110 110	8 0	0	1 2	0 0	0	0TX0044 6D 12	
110	10	0	1	Ö	Ö	0 000010101D 13	
a 110	0 -	0	2	0	0	OTX0044 7D 14	
110	12	0	1	0	0	0 000010101D 15 0TX0044 8D 16	
110 212	0 14	0	2 0	0 0	0	0 000000101D 17	
212	0	Ö	2	Ö	Ö	,0TX0045 9D 18	3
110	16	0	1	0	0	0 000000101D 19 0TX0045 10D 20	
110 110	0 18	0	2 1	0 0	0	0TX0045 10D 20 0 00001010D 21	
110	0	Ö	2	Ö	Ö	0TX0045 11D 22	2
110	20	0	1	0	0	0 000010101D 23	
110	0 22	0	2 1	0	0	0TX0045 12D 24 0 000010101D 25	
110 110	0	0	2	0	Ö	0TX0045 13D 26	
110	24	Ō	1	0	0	0 00000001D 27	
110	3	4	2	0	0	0LN0141 14D 28 0 000000001D 29	
110 110	26 3	0 ₄	1 2	0 0	0	0 000000001D 29 0LN0142 15D 30	
110	28	Ô	ī	Ŏ	ŏ	0 00000001D 31	L
110	2	0	2	0	0	0LN0143 16D 32	
110 110	30 3	0 4	1 2	0 0	0	0 000000001D 33 0LN0144 17D 34	
110	32	Ō	1	Õ	Ö	0 00000001D 35	5
110	2	0	2	0	0	0LN0145 18D 36 0 000000001D 37	
110 110	34 3	0 4	1 2	0 0	0 0	0 000000001D 37 0LN0146 19D 38	
110	36	ō	ī	ŏ	Ö	0 00000001D 39)
110	4	7	2	0	0	0LN0147 20D 40	
112 112	38 4	0 7	1 6	0 0	0	0 000000001D 41 0PC0013 21D 42	
112	44	ó	1	0	0	0 00000001D 43	
112	4	7	5	0	0	0PC0014 22D 44	
112	49	0	1	0	0	0 00000001D 45	
112 112	4 55	7 0	6 1	0 0	0 0	0PC0015 23D 46 0 000000001D 47	
112	2	0	5	Ö	ő	0PC0016 24D 48	
112	60	0	1	0	0 4	0 000000001D 49	
112	3 66	4 0	6 1	0 0	0 -	0PC0017 25D 50 0 000000001D 51	
112 112	4	7	6	0	0	0PC0018 26D 52	
112	72	Ö	1	0	0	0 00000001D 53	3
112	3	4	6	0	0	0PC0019 27D 54	2

			_	•	0	0	000000001D	55
112	78	0	1	0	0	0PC0020	28D	56
112	4	7	6	0	0			57
112	84	0	1	0	0	0	000000001D	
112	3	4	6	0	0	0PC0021	29D	58
		Ô	1	0	0	0	00000001D	59
112	90		-	ŏ	Ö	0PC0022	30D	60
112	4	7	6	Ξ	0	0	00000001D	61
110	96	0	1	0	_	0LN0148	31D	62
110	4	7	2	0	0			63
110	98	0	1	0	0	0	000000001D	
110	4	7	2	0	0	0LN0149	32D	64
_		ó	0	0	0	0	00000001D	65
0	100			Ö	Ö	OMATRIX	33D	6 6
0	0	0	2			0	00000001D	67
100	102	0	1	0	0	Ŧ	34D	68
100	4	7	2	0	0	0CR0093		
110	104	0	1	0	0	0	00000001D	69
110	2	0	2	0	0	0LN0150	35D	70
		ŏ	1	Ö	0	0	000000001D	71
110	106			Ŏ	Ö	0LN0151	36D	72
110	2	0	2	_	_	0	000000001D	73
110	108	0	1	0	0	-	37D	74
110	4	7	2	0	0	0LN0152		
110	110	0	1	0	0	0	00000001D	75
110	4	7	2	0	0	0LN0153	38D	76
110	112	Ö	1	0	0	0	000000001D	77
		7	2	0	0	0LN0154	39D	78
110	4			Ô	Ö	0	000000001D	79
110	114	0	1	•	_	0LN0155	40D	80
110	4	7	2	0	0		000000001D	81
110	116	0	1	0	0	0		
110	4	7	2	0	0	0LN0156	41D	82
110	118	0	1	0	0	0	000000001D	83
110	4	7	2	0	0	0LN0157	42D	84
0	120	ò	ō	Ö	0	0	000000001D	85
	0	ő	3	Ô	Ö	OMATRIX	43D	86
0	-	0	1	Ö	ŏ	0	000000001D	87
0	123			_	Ö	0LC0007	44D	88
0	2	0	3	0		0100007	000000001D	89
124	126	0	0	0	0	-	45D	90
124	0	0	3	0	0	OMATRIX		
104	129	0	1	0	0	89	00000001D	91
104	3	4	3	0	0	0LC0008	46D	92
124	132	0	0	0	0	0	000000001D	93
124	0	0	3	0	0	OMATRIX	47D	94
104	135	Ö	1	Ŏ	Ö	93	000000001D	95
		7	3	0 .	Ö	0LC0009	48D	96
104	4				_	89	000000001D	97
104	138	0	1	0	0			
104	2	0	3	0	0	0LC0010	49D	98
112	141	0	1	0	0	0	00000001D	99
112	4	7	5	0	0	0PC0023	50D	100
100	146	0	1	0	0	0	000000001D	101
100	2	0	2	0	0	0CR0094	51D	102
110	148	Ö	1	Ö	Ö	0	000000001D	103
		7	2	Ö	Ö	0LN0158	52D	104
110	4							
110	150	0	1	0	0	0	000000001D	105
110	2	0	2	0	0	0LN0159	53D	106
110	152	0	1	0	0	0	000000001D	107
110	2	0	2	0	0	0LN0160	54D	108
110	154	0	1	0	0	0	000000001D	109
110	2	Ö	2	0	0	0LN0161	55D	110
110	156	Ŏ	1	ŏ	Ö	0	000000001D	111
			2	0	0	0LN0162	56D	112
110	2	0		_		_		
110	158	0	1	0	. 0	0	000000001D	113
110	2	0	2	0	0	0LN0163	57D	114
110	160	0	1	0	0	0	000000001D	115
110	2	0	2	0	0	0LN0164	58D	116
110	162	0	1	0	0	0	00000001D	117
110	3	4	2	Ö	Ö	0LN0165	59D	118
110	164	0	1	ŏ.	Ö	0	000000001D	119
	3	4	2	0	0	0LN0166	60D	120
110	3	**	4	U	U	οπνοτορ	עטס	120

			_	_	_	•	00000000	***
110	166	0	1	0	0	0	00000001D	121
110	3	4	2	0	0	0LN0167	61D	122
110	168	0	1	0	0	0	000000001D	123
110	3	4	2	0	0	0LN0168	62D	124
100	170	0	1	0	0	0	00000001D	125
100	4	7	2	0	0	0CR0095	63D	126
110	172	0	1	0	0	0	00000001D	127
110	4	7	2	0	0	0LN0169	64D	128
110	174	0	1	0	0	0	00000001D	129
110	4	7	2	0	0	0LN0170	65D	130
100	176	0	1	0	0	0	000000001D	131
100	4	7	2	0	0	0CR0096	66D	132
110	178	0	1	0	0	0	000000001D	133
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110	180	0	1	0	0	0	000000001D	135
110	2	0	2	0	0	0LN0172	68D	136
110	182	0	1	0	0	0	00000001D	137
110	2	0	2	0	0	0LN0173	69D	138
110	184	0	1	0	0	0	00000001D	139
110	2	0	2	0	0	0LN0174	70D	140
110	186	0	1	0	0	0	00000001D	141
110	2	0	2	0	0	0LN0175	71D	142
110	188	Ö	ī	Ö	Ö	0	00000001D	143
110	3	4	2	Ö	Ö	0LN0176	72D	144
110	190	0	1	Ö.	ő	0	000000001D	145
110	3	4	2	0	Ö	0LN0177	73D	146
110	192	_	1	0	0	0	000000001D	147
		0		0	0	0LN0178	74D	148
110	2	0	2	-	_		000000001D	149
100	194	0	1	0	0	0 0CR0097	75D	150
100	2	0	2	0	0		000000001D	151
110	196	0	1	0	0	0 01 NO 1 7 0		151
110	3	4	2	0	0	0LN0179	76D 000000001D	153
110	198	0	1	0	0	0 01N0180		153
110	3	4	2	0	0	0LN0180	77D 000000001D	154
124	200	0	0	0	0	0		
124	0	0	3	0	0	OMATRIX	78D	156
104	203	0	1	0	0	155	00000001D	157
104	2	0	4	0	0	0LC0011	79D 000000001D	158 159
110	207	0	1	0	0	0		
110	2	0	2	0	0	0LN0181	80D	160
110	209	0	1	0	0	0	000000001D 81D	161
110	2	0	2	0	0	0LN0182		162
110	211	0	1	0	0	0 01 NO 1 9 3	00000001D	163
110	3	4	2 1	0	0	0LN0183	82D 000000001D	164 165
110 110	213	0	2	0	0	0 0LN0184	83D	166
110	.3 215	4 0	1	0 0	0	01101104	000000001D	167
110	3	4	2	0	Ö	0LN0185	84D	168
110	217	0	1	Ö	Ô	0	000000001D	169
110	2	0	2	Ö	o	0LN0186	85D	170
110	219	0	1	Ô	Ö	0	000000001D	171
		0	7	0	0	0LN0187	86D	172
110	2		2				000000001D	173
100	221	0	1	0	0	0		
100	2	0	2	0	0	0CR0098	87D	174
100	223	0	1	0	0	0	00000001D	175
100	4	7	2	0	0	0CR0099	88D	176
110	225	0	1	0	0	0	00000001D	177
110	3	4	2	0	0	0LN0188	89D	178
110	227	0	1	0	0	0	00000001D	179
110	3	4	2	0	0	0LN0189	90D	180
110	229	0	1	0	0	0	00000001D	181
110	2	0	2	0	0	0LN0190	91D	182
110	231	0	1	0	0	0	00000001D	183
110	2	0	2	0	0	0LN0191	92D	184
110	233	0	1	0	0	0	00000001D	185
110	2	0	2	0	0	0LN0192	93D	186

110	235	0	1	0	0	0	00000001D	187
110	3	4	2	Ö	Ö	0LN0193	94D	188
100	237	0	ī	Ö	Ö	0	000000001D	189
100	4	7	2	ŏ	Ö	0CR0100	95D	190
110	239	ó	ī	õ	Ö	0	000000001D	191
110	2 2	0	2	Õ	Ö	0LN0194	96D	192
112	241	0	1	Õ	ŏ	0	000000001D	193
	4	7	6	Ö	Ö	0PC0024	97D	194
112	247	ó	1	ŏ	ő	0	00000001D	195
110		7	2	0	ő	0LN0195	98D	196
110	4	_	1	0	Ö	0	000000001D	197
110	249	0	2	0	Ö	0LN0196	99D	198
110	4	7		0	Ö	0	000000001D	199
100	251	0	1	0	Ö	0CR0101	100D	200
100	2	0	2	_	0	0	000000001D	201
110	253	0	1	0		0LN0197	101D	202
110	4	7	2	0	0	0110197	000000001D	203
110	255	0	1	0	0	0LN0198	102D	204
110	4	7	2	0	0	155	000000001D	205
104	257	0	1	0	0	0LC0012	103D	206
104	4	7	3	0	0		000000001D	207
110	260	0	1	0	0	0		207
110	4	7	2	0	0	0LN0199	104D	
100	262	0	1	0	0	0	000000001D	209
100	4	7	2	0	0	0CR0102	105D	210
0	264	0	1	0	0	0	000000001D	211
0	3	4	2	0	0	0LN0200	106D	212
110	266	0	1	0	0	0	00000001D	213
110	4	7	2	0	0	0LN0201 0	107D 000000001D	214 215
110	268	0	1	0	0	0LN0202	108D	216
110	4 270	7	2	0	0	01110202	000000001D	217
110	270	0	1	0	0	0LN0203	109D	218
110	4 272	7 0	2 1	0	0	0LN0203	000000001D	219
100 100	4	7	2	0	0	0CR0103	110D	220
100	274	ó	1	0	0	0000103	000000001D	221
100	2	0	2	0	ő	0CR0104	111D	222
110	276	ő	ī	Õ	ŏ	0	000000001D	223
110	4	7	2	Ö	ő	0LN0204	112D	224
100	278	Ö	1	Ö	Ŏ	0	000000001D	225
100	4	7	2	Ō	Ō	0CR0105	113D	226
100	280	0		Ō	Ö	0	00000001D	227
100	2	Ô	1 2	Ö	Ö	0CR0106	114D	228
100	282	Ö	ī	Ö	Ö	0	000000001D	229
100	2	0	2	0	0	0CR0107	115D	230
110	284	Ö	1	Ö	Ö	0	000000001D	231
110	2	0	2	Ō	Ō	0LN0205	116D	232
110	286	Ö	1	Ŏ	Ö	0	000000001D	233
110	2	Ö	2	Ö	Ö	0LN0206	117D	234
110	288	Ö	ī	Ö	ŏ	0	000000001D	235
110	2	Ö	2	ŏ	Ö	0LN0207	118D	236
110	290	Ö	1	ő	ŏ	0	000000001D	237
110	2	ő	2	Ö	Ö	0LN0208	119D	238
110	292	ő	1	Ö	ő	0	000000001D	239
110	2	Ö	2	ŏ	ő	0LN0209	120D	240
110	294	ŏ	1	ŏ	ŏ	0	000000001D	241
110	4	7	1	ő	ŏ	0LN0210	121D	242
110	295	Ó	1	Ŏ	ő	0	000000001D	243
110	4	7	ī	Ŏ	Ö	0LN0211	122D	244
110	296	Ó	1	Ö	Ö	0	000000001D	245
110	2	ő	1	Ö	0	0LN0212	123D	245
110	297	ŏ	ī	0	Ö	0	000000001D	247
110	2	Ö	1	0	Ö	0LN0213	124D	248
110	298	ő	ī	Ö	ő	0	000000001D	249
110	2	Ö	1	Ö	Ö	0LN0214	125D	250
110	299	Ō	ī	Ö	ő	0	000000001D	251
110	2	Ö	1	Ö	ŏ	0LN0215	126D	252
		-	_	-	-	J	1200	232

110	300	0	1	0 `	0	0	000000001D	253
110	2	Ö	1	Ö	0	0LN0216	127D	254
110	301	Õ	7	ŏ	Ŏ	0	000000001D	255
		7	1	_	Ö	0LN0217	128D	256
110	4		1	0	_	_	000000101D	257
212	302	0	0	0	0	0		
212	0	0	2	0	0	0TX0046	129D	258
212	304	0	0	0	0	0	000000101D	259
212	0	0	3	0	0	0TX0047	130D	260
212	307	0	0	0	0	0	000000101D	261
212	0	0	2	0	0	0TX0048	131D	262
212	309	0	0	0	0	0	000000101D	263
212	Ő	Ö	2	Ö	Ö	0TX0049	132D	264
212	311	0	0	ŏ	Ö	0	000000101D	265
		1	_	Ī	Ö	0TX0050	133D	266
212	0	0	2	0		0120030	000000101D	267
212	313	0	0	0	0	•		
212	0	0	2	0	0	0TX0051	134D	268
212	315	0	0	0	0	0	000000101D	269
212	0	0	6	. 0	0	OTX0052	135D	270
110	321	0	1	0	0	0	00000001D	271
110	4	7	1	0	0	0LN0218	136D	272
212	322	0	0	: 0	0	, 0	000000101D	273
212	0	Ö	6	.0	0	0TX0053	137D	274
£212	328	ő	Õ	Ö	ŏ	0	000000101D	275
		_	6	_	0	0TX0054	138D	276
212	0	0	0	0	_	_	000000101D	277
212	334	0	0	0	0	0		
212	0	0	6	0	0	0TX0055	139D	278
212	340	0	0	0	0	0	000000101D	279
212	0	0	6	.0	0	0TX0056	140D	280
212	346	0	0	0	0	0	000000101D	281
212	0	0	2	0	.0	0TX0057	141D	282
110	348	0	1	0	0	0	00000001D	283
110	4	7	2	0	0	0LN0219	142D	284
110	350	. 0	1	0	0	0	00000001D	285
110	4	7	2	0	0	0LN0220	143D	286
100	352	Ó	1	Ô	0	0	000000001D	287
100	4	7	2	Ö	Ŏ	0CR0108	144D	288
110	354	ó	1	0	ŏ	0	000000001D	289
	_	7	2	0	0	0LN0221	145D	290
110	25.6		_	0	0	0	000000001D	291
110	356	0	1	0	0	-		292
110	2	0	2	0	0	0LN0222	146D	
110	358	0	1	0	0	0	00000001D	293
110	2	0	2	0	0	0LN0223	147D	294
110	360	0	1	0	0	0	00000001D	295
110	2	0	2	0	0	0LN0224	148D	296
110	362	0	1	0	0	0	00000001D	297
110	2	0	2	0	0	0LN0225	149D	298
110	364	0	1	0	0	0	00000001D	299
110	2	0	2	. 0	0	0LN0226	150D	300
110	366	0	1	0	0	0	00000001D	301
110	4	7	2	1.0	0	0LN0227	151D	302
110	368	Ö	1	0	Ö	0	00000001D	303
110	2	Ö	2	Ö	Ō	0LN0228	152D	304
100	370	ŏ	ī	ŏ	Ö	0	000000001D	305
		7			0	0CR0109	153D	306
100	4	•	2	0	0	0	000000001D	307
110	372	0	1	0	-	•		308
110	2	0	2	0	0	0LN0229	154D	
100	374	0	1	0	0	0	00000001D	309
100	2	0	2	0	0	0CR0110	155D	310
110	376	0	1	0	0	0	000000001D	311
110	2	0	2	0	0	0LN0230	156D	312
110	378	Ō	1	0	0	0	000000001D	313
110	4	7	2	o ·	Ö	0LN0231	157D	314
100	380	ó	1	ő	Ŏ	0	000000001D	315
100	4	7	2	ő	Ö	0CR0111	158D	316
	382	ó	1	0	0	0	000000001D	317
110		=	2			0LN0232	159D	318
110	2	0	2	0	0	OPM0525	1930	210

100	384	0	1	. 0	0	0	00000001D	319
100 100	2	0	2	Ŏ	Ö	0CR0112	160D	320
100	386	Ö	1	0	0	0	000000001D	321
100	2	0	2	0	0	0CR0113	161D	322
100	388	0	1	0	0	0	000010001D 162D	323 324
100	2	0	2	0	0	0CR0114	000010001D	325
100	390	0	1	0	0	0 0CR0115	163D	326
100	2	0	2	0	0	0	000010001D	327
100	392	0	1	0	0	0CR0116	164D	328
100	2	0	2 1	0	0	0	000000001D	329
100 100	394 2	0	2	Ö	ŏ	0CR0117	165D	330
100	396	ő	ī	ŏ	Ö	0	00000001D	331
100	2	Ö	2	0	0	0CR0118	166D	332
100	398	0	1	0	0	0	000000001D	333
100	2	0	2	0	0	0CR0119	167D	334
100	400	0	1	0	0	0	000000001D	335
100	2	0	2	0	0	0CR0120	168D 000000001D	336 337
100	402	0	1	0	. 0	0 0CR0121	169D	338
100	2	0	2	0	0	0	000000001D	339
100	404	0	1 2	0	0	0CR0122	170D	340
100 100	2 406	- 0	1	Ö	ŏ	0	000000001D	341
100	2	Ö	2	ŏ	Ö	0CR0123	171D	342
100	408	ő	ī	Ö	0	0	00000001D	343
100	2	0	2	0	0	0CR0124	172D	344
110	410	0	1	0	0	0	000000001D	345
110	4	7	2	0	0	0LN0233	173D	346 347
110	412	0	1	0	0	0 0LN0234	000000001D 174D	348
110	4	7 0	2 1	0	0 0	0LN0234	000000001D	349
100 100	414 2	0	2	ő	ŏ	0CR0125	175D	350
100	416	Ö	1	ŏ	Ö	0	00000001D	351
100	2 ·	Ö	2	0	0	0CR0126	176D	352
110	418	0	1	0	0	0	00000001D	353
110	4	7	2	0	0	0LN0235	177D	354
100	420	0	1	0	0	0 0CR0127	000000001D 178D	355 356
100 100	2 422	0	2 1	0	0	0	000000001D	357
100	2	ŏ	2	ő	Ö	0CR0128	179D	358
100	424	0	1	0	0	0	00000001D	359
100	2	0	2	0	0	0CR0129	180D	360
100	426	0	1	0	0	0	000000001D	361
100	2	0	2	0	0	0CR0130	181D 000000001D	362 363
100 100	428 2	0 0	1 2	0 0	0 0	0 0CR0131	182D	364
100	430	0	1	Ö	0	0	000000001D	365
100	2	ŏ	2	Ö	Ö	0CR0132	183D	366
100	432	Ō	1	Ö	0	0	00000001D	367
100	2	0	2	0	0	0CR0133	184D	368
100	434	0	1	0	0	0	00000001D	369
100	2	0	2	0	0	0CR0134	185D	370
100 100	436 2	0	1 2	0	0	0 0CR0135	000000001D 186D	371 372
100	438	0	1	Ö	Ö	0000133	000000001D	373
100	2	Ö	2	Ö	. 0	0CR0136	187D	374
100	440	0	1	0	0	0 .	00000001D	375
100	2	0	2	0	0	OCR0137	188D	376
100	442	0	1	0	0	0	00000001D	377
100	2	0	2	0	0	0CR0138	189D	378
100	444	0	1	0	0	0	00000001D	379
100	2	0	2	0	0	0CR0139	190D	380
100 100	446	0 0	1 2	0	0	0 0CR0140	000000001D 191D	381 382
100	2 448	0	1	0	0	000140	000000001D	382
100	2	0	2	Ö	0	0 0CR0141	192D	384
	_	•	_	-	•			401

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100	450	0	1	0	0	0	000000001D	385
100	2	Ö	2	ŏ	ŏ	0CR0142	193D	386
100	452	Ö	ī	Ō	Ö	0	00000001D	387
100	2	Ō	2	Ó	0	0CR0143	194D	388
100	454	Ō	1	Ö	0	0	00000001D	389
100	2	Ō	2	0	0	0CR0144	195D	390
100	456	0	1	0	0	0	00000001D	391
100	2	0	2	0	0	0CR0145	196D	392
100	458	Ö	1	0	0	0	00000001D	393
100	2	0	2	0	0	0CR0146	197D	394
100	460	0	1	0	0	0 .,	00000001D	395
100	2	0	2	0	0	0CR0147	198D	396
110	462	Ó	1	0	0	0	00000001D	397
110	4	7	2	0	0	0LN0236	199D	398
100	464	0	1	0	0	0	00000001D	399
100	2	0	2	0	0	0CR0148	200D	400
100	466	0	1	0	0	0 .,	00000001D	401
100	4	7	2	0	0	0CR0149	201D	402
212	468	0	0	Ó	0	0	000000101D	403
212	0	0	2	0	0	0TX0058	202D	404
212	470	0	0	0	0	0	000000101D	405
212	0	0	2	0	0	0TX0059	203D	406
100	472	0	1	0	0	0	00000001D	407
100	2	0	2	Ö	0	0CR0150	204D	408
100	474	0	1	0	0	0	00000001D	409
100	2	0	2	0	0	0CR0151	205D	410
100	476	0	1	Oj	0	0	00000001D	411
100	2	0	2	0	0	0CR0152	206D	412
100	478	0	1	0	0	0	00000001D	413
100	2	0	2	0	0	0CR0153	207D	414
100	480	0	1	0	0	0	00000001D	415
100	2	0	2	0	0	0CR0154	208D	416
100	482	0	1	0	0	0	00000001D	417
100	2	0	2	0	0	0CR0155	209D	418
212	484	0	0	0	0	0	000000101D	419
212	0	0	2	0	0	0TX0060	210D	420
100	486	0	1	0	0	0	000000001D	421
100	2	0	2	0	0	0CR0156	211D	422
100	488	0	1	0	0	0 0CB0157	000000001D 212D	423 424
100	2 490	0	2	0	0	0CR0157 0	000000001D	425
110 110	2	0 0	2	0	0	0LN0237	213D	426
100	492	0	1	0	Ö	01110237	000000001D	427
100	2	ő	2	Ö	ŏ	0CR0158	214D	428
100	494	ŏ	1	ŏ	ŏ	0	000000001D	429
100	2	ő	2	ŏ	Ö	0CR0159	215D	430
100	496	Ö	1	Ö	Ö	0	00000001D	431
100	2	Ō	2	0	0	0CR0160	216D	432
100	498	Ö	1	Ō	0	0	000000001D	433
100	2	0	2	0	0	0CR0161	217D	434
100	500	0	1	0	0	0	00000001D	435
100	2	0	2	0	0	0CR0162	218D	436
110	502	0	2	0.	0	0	00000001D	437
110	2	0	2	0	0	0LN0238	219D	438
110	504	0	2	0	0	0	00000001D	439
110	2	0	2	0	0	0LN0239	220D	440
110	506	0		0	0	0	00000001D	441
110	2	0	2 2	0	0	0LN0240	221D	442
110	508	0	2	0	0	0	00000001D	443
110	2	0	2	0	0	0LN0241	222D	444
110	510	0	2	0	0	0	00000001D	445
110	2	0	2	0	0	0LN0242	223D	446
100	512	0	1	0	0	0	00000001D	447
100	2	0	2	0	0	0CR0163	224D	448
100	514	0	1	0	0	0	00000001D	449
100	2	0	2	0	0	0CR0164	225D	450 59

100	516	0	1	0	0	0	000000001D	451
100	2	Ö	2	Ö	0	0CR0165	226D	452
100	518	ŏ	1	Ö	Ö	0	000000001D	453
100	2	Ö	2	Ö	0	0CR0166	227D	454
100	520	Ö	1	Ö	0	0	000000001D	455
100	2	ő	2	Ö	Ö	0CR0167	228D	456
100	522	Ö	1	ŏ	ŏ	0	00000001D	457
100	2	Ö	2	Ö	Ö	0CR0168	229D	458
	524	0	1	0	ŏ	0	000000001D	459
100				0	0	0CR0169	230D	460
100	2	0	2	0	0	0	000000001D	461
100	526	0	1	0	_	0CR0170	231D	462
100	2	0	2	Ī	0	0020170	000000001D	463
100	528	0	1	0	_	0CR0171	232D	464
100	2	0	2	0	0	0	000000001D	465
110	530	0	2	0	_	0LN0243	233D	466
110	2	0	2	0	0	_	000000001D	467
110	532	0	2	0	0	0	234D	468
110	2	0	2	Ü	0	0LN0244		469
100	534	0	1	0	0	0	00000001D	
100	4	7	2	0	0	0CR0172	235D	470
100	536	0	1	0	0	0	000000001D	471
100	2	0	2	0	0	0CR0173	236D	472
110	538	0	1	0	0	0	00000001D	473
110	4	7	2	0	0	0LN0245	237D	474
110	540	0	1	0	0	0	00000001D	475
110	4	7	2	0	0	0LN0246	238D	476
212	542	0	0	0	0	0	000000101D	477
212	0	0	2	0	0	0TX0061	239D	478
110	544	0	1	0	, 0	0	00000001D	479
110	4	7	2	0	0	0LN0247	240D	480
212	546	0	0	0	0	0	000000101D	481
212	0	0	2	0	0	0TX0062	241D	482
100	548	0	1	0	0	0	00000001D	483
100	4	7	2	0	0	0CR0174	242D	484
212	550	0	0	0	0	0	000000101D	485
212	0	0	2	0	0	0TX0063	243D	486
212	552	0	0	0	0	0	000000101D	487
212	0	0	2	0	0	0TX0064	244D	488
212	554	0	0	0	0	0	000000101D	489
212	0	0	2	0	0	0TX0065	245D	490
212	556	0	0	0	0	0	000000101D	491
212	0	0	2	0	0	0TX0066	246D	492
212	558	0	0	0	0	0	000000101D	493
212	0	0	2	0	0	0TX0067	247D	494
212	560	0	0	0	0	0	000000101D	495
212	0	0	2	0	0	0TX0068	248D	496
212	562	0	0	0	0	0	000000101D	497
212	0	0	2	0	0	0TX0069	249D	498
212	564	0	0	0	0	0	000000101D	499
212	0	0	2	0	0	OTX0070	250D	500
212	566	0	0	0	0	0	000000101D	501
212	0	0	2	0	0	0TX0071	251D	502
212	568	0	0	0	0	0	000000101D	503
212	0	0	2	0	0	0TX0072	252D	504
212	570	0	0	0	0	0	000000101D	505
212	0	0	2	0	0	0TX0073	253D	506
212	572	0	0	0	0	0	000000101D	507
212	0	0	2	0	0	0TX0074	254D	508
212	574	0	0	0	0	0	000000101D	509
212	0	0	2	0	0	0TX0075	255D	510
212	576	0	0	Ö	Ö	0	000000101D	511
212	0	0	2	Ö	Ö	0TX0076	256D	512
212	578	Ö	0	Ö	Ö	0	000000101D	513
212	0	Ö	2	Ö	Ö	0TX0077	257D	514
212	580	Ŏ	0	Ö	Ö	0	000000101D	515
212	0	Ö	2	Ö	0	0TX0078	258D	516
		-		-	_		2000	0 1 0

100	582	0	1	O	0	0	000000001D	517
100	2	0	2	0	0.	0CR0175	259D	518
110	584	0	1	0	0	0	00000001D	519
110	2	0	2	0	0	0LN0248	260D	520
100	586	0	1	0	0	0	00000001D	521
100	2	0	2	0	0	0CR0176	261D	522
212 212	588 0	0 0	0 2	0	0 0	0	000000101D	523
110	590	0	2	0	0	0TX0079 0	262D 000000001D	524 525
110	2	0	2	0	0	0LN0249	263D	526
100	592	Ö	1	Ö	0	0	000000001D	527
100	2	Ö	2	Ö	Ö	0CR0177	264D	528
212	594	Ö	Ō	Ö	Ö	0	000000101D	529
212	0	0	3	0	0	0800XT0	265D	530
102	597	0	1	0	0	0	000010101D	531
102	0	0	2	0	0	0CC0001	266D	532
102	599	0	1	0	0	0	000010101D	533
102	0	0	2	0	0	0CC0002	267D	534
230	601	0	1	0	0	0	000000101D	535
230	0	0	1	0	0	0SA0001	268D	536
230	602	0	1	0	0	0	000000101D	537
230	0	0	1	0	0	0SA0002	269D	538
230	603	0 0	1	0	0 0	0	000000101D	539
230 230	0 604	0	1 1	0	0	0SA0003 0	270D 000000101D	540 541
230	0	0	1	0	0	0SA0004	271D	542
230	605	ő	ī	Ö	ŏ	0	000000101D	543
230	0	ő	ī	ŏ	ő	0SA0005	272D	544
410,1,1.0,0	0,0,0,0	,0,0,0;					1P	1
406,2,8.0,1							3P	2
404,1,1,0.0							5P	3
212,1,8,0.4						48972,0.0,	7P	4
0,0,3.98648						60012214	7P	5 6
110,3.13979	93396,7.6	302318844	16,0.0,3.	9021//0/	08,6.419	09013214,	9P 9P	7
110,3.13979	93396.7.6	302518844	16.0.0.3.	26575749	424.7.49	821762393.	11P	8
0.0,0,0;	, , , , , ,					,	11P	9
110,3.13979	93396,7.6	302518844	16,0.0,3.	21612670	173,7.46	450138993,	13P	10
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110,3.26575			2393,0.0,	3.216126	70173,		15P	12
7.464501389							15P	13
212,1,7,0.3						48972,0.0,	17P	14
0,0,2.91526							17P	15
110,2.950986.195483207			1657,0.0,	2.890963	94857,		19P	16
110,2.95098			657 0 0	2 071040	261/2		19P 21P	17 18
7.104973044			,057,0.0,	2.9/1040	30143,		21P	19
110,2.95098			657.0.0.	2.911138	96784.		23P	20
7.108269187			, ,		,		23P	21
110,2.97104			426,0.0,	2.911138	96784,		25P	22
7.108269187	731,0.0,0	,0;					25P	23
110,3.22573			082,0.0,	3.463209	86732,		27P	24
8.284575279							27P	25
110,3.22573			082,0.0,	3.995146	97784,		29P	26
8.340008455				4 120270	0245		29P	27
110,3.46320			992,0.0,	4.130370	2345,		31P	28
8.163104753 110,3.99514			530 O O	A 120270	2245		31P	29
8.163104753			550,0.0,	4.T303/0	2343,		33P 33P	30 31
110,4.13037			03.0.0.5	. 0863789	2039.		35P	32
8.620074878			,, -				35P	33
110,5.10599			746.0.0.	4.898341	65756.		37P	34
7.864558601			, ,		/		37P	35
110,5.10599			746,0.0,	4.601858	26193,		39P	36
7.732791965			·		-		39P	37
112,3,1,2,1	.,0.0,0.6	084791414	35,2.810	60871347	,0.514352	2604635,	41P	38
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0.352218720157,-0.120523001026,7.94295330381,0.857109739944,
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3.22683709689,0.492331610595,0.489509022022E-01,
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-0.271523249759E-01,8.38103818385,0.353059092907,
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-0.866030556195E-01,-0.157726848992E-02,0.0,0.0,0.0,0.0,0,0;
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0.557665023012,0.405813877033E-01,0.0,8.75829668019,
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112,3,1,2,1,0.0,0.800012319783,3.7938613754,0.964069858511,
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7.77480031082,0.0,0,0;
                                                                                 211
110,3.56074136658,7.75989646145,0.0,3.50974491599,
                                                                        163P
                                                                                 212
                                                                        163P
7.80075221456,0.0,0,0;
                                                                                 213
110,3.6310275119,7.78691586969,0.0,3.63419635854,
                                                                        165P
                                                                        165P
                                                                                 214
7.80181971906,0.0,0,0;
                                                                                 215
110,3.56074136658,7.75989646145,0.0,3.6310275119,
                                                                        167P
                                                                                 216
                                                                        167P
7.78691586969,0.0,0,0;
                                                                                 217
110,3.51660449459,7.83301446573,0.0,3.5429504875,
                                                                        169P
                                                                        169P
                                                                                 218
7.80785282197,0.0,0,0;
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110,3.43848054238,7.7494813944,0.0,3.50351606543,
                                                                        171P
                                                                                 220
                                                                        171P
7.77779989847,0.0,0,0;
                                                                                 221
                                                                        173P
100,0.0,4.13267516977,7.81466063885,3.43370182056,
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                                                                        173P
7.92044347105, 3.49268150104, 7.51439100256, 0, 0;
                                                                        175P
                                                                                 223
100,0.0,4.06672543897,7.69522832406,3.26049186278,
                                                                                 224
                                                                        175P
7.84802615234, 3.28991368897, 7.43079825623, 0, 0;
                                                                        177P
                                                                                 225
110,3.21789628276,7.70232322644,0.0,3.21514800111,
                                                                        177P
                                                                                 226
7.66175689384,0.0,0,0;
                                                                        179P
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110,3.13908420749,7.75972706862,0.0,3.21789628276,
                                                                        179P
                                                                                 228
7.70232322644,0.0,0,0;
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                                                                        181P
110,3.13908420749,7.75972706862,0.0,3.14293088214,
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7.73443788188,0.0,0,0;
110,3.14293088214,7.73443788188,0.0,3.15515681409,
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                                                                        183P
                                                                        183P
                                                                                 232
7.70789590155,0.0,0,0;
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                                                                        185P
110,3.15515681409,7.70789590155,0.0,3.21530576581,
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                                                                        185P
7.66408559811,0.0,0,0;
110,2.98904985523,7.67129767228,0.0,3.00127578718,
                                                                         187P
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                                                                         187P
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7.64475569194,0.0,0,0;
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237
100,0.0,3.44870295285,7.49013625251,3.22594826788,
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7.33617449086, 3.35462033211, 7.23622222335, 0, 0;
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                                                                                 239
                                                                         191P
110,3.35462033211,7.23622222335,0.0,3.80689330111,
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7.42531294398,0.0,0,0;
112,3,1,2,1,0.0,0.566967445147,3.35844725991,0.896023700235,
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                                                                                 241
0.189061626394E-01,-0.505639148805E-02,7.16184893794,
                                                                         193P
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                                                                                 243
0.430469723276,-0.100897997044E-01,0.120118614437E-02,0.0,0.0,
                                                                         193P
                                                                         193P
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0.0, 0.0, 3.87161941156, 0.517406493338, 0.331279984627E-02,
-0.921541843963E-03,7.40288678964,0.238232303792,
                                                                         193P
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-0.258662828585E-02,0.218919618278E-03,0.0,0.0,0.0,0.0,0.0,0;
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110,3.72106974823,7.53865353232,0.0,3.83915311129,
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                                                                        195P
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7.41845353075,0.0,0,0;
110,3.85125966664,7.42464415858,0.0,3.94934753956,
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                                                                        197P
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7.31982290233,0.0,0,0;
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100,0.0,3.86003,7.42542,3.87130,7.44433,3.83915,
                                                                        199P
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                                                                        199P
7.41845,0,0;
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110,3.95698275944,7.28491912962,0.0,3.9660157186,
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7.31469474646,0.0,0,0;
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                                                                        203P
110,3.94305108978,7.08883230568,0.0,4.0000202755,
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                                                                        203P
7.24875144207,0.0,0,0;
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104,2.45896973343,0.0,0.541030266572,0.0,0.0,
-0.168305862822E-01,0.0,-0.977458223411E-02,-0.175140407723,
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                                                                                 258
                                                                         205P
                                                                                 259
0.744538135736E-01,0.769019752249E-01,0,0;
                                                                         207P
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110,3.94562263552,6.88529094846,0.0,3.85849003761,
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6.9277601033,0.0,0,0;
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100,0.0,3.92411966591,7.0854407431,3.90581867241,
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                                                                                 263
                                                                        209P
7.09135472175, 3.94305108978, 7.08883230568, 0, 0;
                                                                         211P
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0,
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                                                                         211P
0;
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110,4.03398901889,7.25798734429,0.0,4.0254312987,
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                                                                         213P
7.23519035191,0.0,0,0;
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                                                                        215P
110, 4.0451687493, 7.22549365752, 0.0, 4.13230134722,
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                                                                         215P
7.18302450269,0.0,0,0;
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                                                                         217P
110, 4.0000202755, 7.24875144207, 0.0, 4.02518272537,
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                                                                         217P
7.23272876551,0.0,0,0;
100,0.0,3.98286,7.19347,4.00002,7.24875,3.94921,
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                                                                         219P
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7.24056,0,0;
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                                                                         221P
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                                                                         221P
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7.27171,0,0;
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110, 4.07677224176, 7.37196531398, 0.0, 4.05098529205,
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7.29763238281,0.0,0,0;
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100,0.0,3.99163,7.22216,4.06232,7.28713,3.96602,
                                                                         225P
                                                                         225P
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7.31469,0,0;
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                                                                         227P
7.28476,0,0;
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7.31982,0,0;
                                                                         229P
                                                                                 283
                                                                                 284
110,4.01902893587,7.48574291856,0.0,4.0609114388,
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                                                                         231P
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7.48290546921,0.0,0,0;
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110,3.8841884276,7.46215355187,0.0,3.98787037609,
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7.50889366307,0.0,0,0;
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                                                                         235P
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110,3.98325607226,7.54426773316,0.0,3.88608011562,
                                                                         235P
                                                                                 289
7.49007603416,0.0,0,0;
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                                                                        237P
110,3.98384175892,7.65643306664,0.0,3.8730658563,
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7.50498181613,0.0,0,0;
                                                                        237P
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110,3.99962157337,7.61328683199,0.0,3.88221575107,
                                                                        239P
                                                                        239P
                                                                                 293
7.50202499018,0.0,0,0;
                                                                                 294
110,6.4,2.73753929138,0.0,0.6,2.73753929138,0.0,0,0;
                                                                        241P
                                                                        243P
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110,6.4,1.63753986359,0.0,6.4,2.73753929138,0.0,0,0;
110,0.6,2.46003929138,0.0,6.4,2.46003929138,0.0,0,0;
                                                                        245P
                                                                                 296
110,5.4,1.63753986359,0.0,5.4,2.46003929138,0.0,0,0;
                                                                        247P
                                                                                 297
                                                                        249P
                                                                                 298
110,0.6,2.21953929138,0.0,6.4,2.21953929138,0.0,0,0;
110,2.1,1.63753986359,0.0,2.1,2.46003929138,0.0,0,0;
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                                                                        251P
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                                                                        253P
110,1.6,1.63753986359,0.0,1.6,2.46003929138,0.0,0,0;
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                                                                         255P
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212,1,3,0.167733333333,0.737499967217E-01,1,1.57079648972,0.0,
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257P
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0,0,5.80224479251,2.30822540447,0.0,3HBUS,0,0;
                                                                        259P
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212,1,37,3.13194430967,0.972222205665E-01,1,1.57079648972,0.0,
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0,0,1.93479881667,2.5579686703,0.0,37HESSENTIAL CIRCUIT BREAKER
                                                                        259P
                                                                                 306
                                                                        259P
PANEL NO. 1,0,0;
212,1,12,0.670833333333,0.737499967217E-01,1,1.57079648972,
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                                                                        261P
                                                                                 308
                                                                        261P
0.0,0,0,3.44232238346,2.30822254345,0.0,12HNOMENCLATURE,0,0;
                                                                                 309
212,1,7,0.391377777778,0.737499967217E-01,1,1.57079648972,0.0,
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0,0,0.910783360534,2.30822635815,0.0,7HREF DES,0,0;
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212,1,4,0.223644444444,0.737499967217E-01,1,1.57079648972,0.0,
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                                                                        265P
                                                                        265P
                                                                                 312
0,0,1.72757781559,2.30822540447,0.0,4HZONE,0,0;
212,1,8,0.753955526416,0.972222205665E-01,1,1.57079648972,0.0,
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                                                                                 313
                                                                        267P
                                                                                 314
0,0,0.695005950663,2.55797248499,0.0,8H52Z-C007,0,0;
                                                                        269P
                                                                                 315
212,3,13,0.726744444444,0.737499967217E-01,1,1.57079648972,
                                                                        269P
                                                                                 316
0.0,0,0,2.23292983585,2.05118633434,0.0,13HR MLG WOW PWR,13,
                                                                        269P
                                                                                 317
0.726744444444,0.737499967217E-01,1,1.57079648972,0.0,0,0,
                                                                        269P
                                                                                 318
2.23292983585,1.91229744545,0.0,13HL MLG WOW PWR,14,
                                                                        269P
                                                                                 319
0.78275555556,0.737499967217E-01,1,1.57079648972,0.0,0,0,
                                                                        269P
                                                                                 320
2.23292983585,1.77340855656,0.0,14HLDG GR POS IND,0,0;
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                                                                                 321
                                                                        273P
                                                                                 322
212,3,2,0.111822222222,0.737499967217E-01,1,1.57079648972,
                                                                        273P
                                                                                 323
0.0,0,0,1.77439464145,2.05118633434,0.0,2HL1,2,
                                                                        273P
                                                                                 324
0.111822222222,0.737499967217E-01,1,1.57079648972,0.0,0,0,
                                                                        273P
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1.77439464145,1.91229744545,0.0,2HM1,2,0.111822222222,
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                                                                                 326
0.737499967217E-01,1,1.57079648972,0.0,0,0,1.77439464145,
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1.77340855656,0.0,2HN1,0,0;
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212,3,8,0.447288888889,0.737499967217E-01,1,1.57079648972,0.0,
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0,0,0.851796756321,2.05118633434,0.0,8H41CBC033,8,
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                                                                                 330
0.447288888889,0.737499967217E-01,1,1.57079648972,0.0,0,0,
                                                                        275P
                                                                                 331
0.851796756321,1.91229744545,0.0,8H41CBC034,8,0.447288888889,
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                                                                        275P
0.737499967217E-01,1,1.57079648972,0.0,0,0.851796756321,
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                                                                        275P
1.77340855656,0.0,8H42CBC005,0,0;
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0,0,4.99522365146,2.05118633434,0.0,5H28VDC,5,0.27965555556,
                                                                        277P
                                                                                 335
0.737499967217E-01,1,1.57079648972,0.0,0,0,4.99522365146,
                                                                        277P
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1.91229744545,0.0,5H28VDC,5,0.27965555556,0.737499967217E-01,
                                                                        277P
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1,1.57079648972,0.0,0,0,4.99522365146,1.77340855656,0.0,5H28VDC,
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                                                                        277P
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                                                                        277P
0,0;
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                                                                        279P
                                                                                 341
5.64113391452,2.05118633434,0.0,9HESS 28VDC,9,0.5031,
                                                                        279P
                                                                                 342
0.737499967217E-01, 1, 1.57079648972, 0.0, 0, 0, 5.64113391452,
                                                                        279P
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1.91229744545,0.0,9HESS 28VDC,9,0.5031,0.737499967217E-01,1,
                                                                        279P
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1.57079648972,0.0,0,0,5.64113391452,1.77340855656,0.0,9HESS 28VD
C, 0, 0;
                                                                        279P
                                                                                 345
212,1,10,0.559011111111,0.737499967217E-01,1,1.57079648972,
                                                                        281P
                                                                                 346
                                                                        281P
0.0,0,0,5.62985862308,2.56970764324,0.0,10H(24-50-12),0,0;
                                                                                 347
                                                                        283P
                                                                                 348
110, 4.70588709214, 5.27583267886, 0.0, 4.87115087145,
5.59221722308,0.0,0,0;
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                                                                                 349
                                                                        285P
                                                                                 350
110,4.87796913147,5.65999675751,0.0,4.87796913147,
5.61999675751,0.0,0,0;
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100,0.0,4.81797,5.62000,4.87115,5.59222,4.87797,
                                                                        287P
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5.62000,0,0;
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110,4.87796913147,5.65999675751,0.0,2.30484413147,
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                                                                                 354
5.65999675751,0.0,0,0;
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110,4.80796913147,5.25999675751,0.0,4.80796913147,
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5.04999675751,0.0,0,0;
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110,4.72796913147,5.30999675751,0.0,4.80796913147,
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5.30999675751,0.0,0,0;
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110, 4.72796913147, 5.25999675751, 0.0, 4.80796913147,
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5.25999675751,0.0,0,0;
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110, 4.72796913147, 5.3181070113, 0.0, 4.72796913147,
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5.01499675751,0.0,0,0;
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110,4.80796913147,5.04999675751,0.0,4.72796913147,
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5.04999675751,0.0,0,0;
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110,4.69796913147,5.24229165919,0.0,4.69796913147,
                                                                        301P
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4.07333267886,0.0,0,0;
                                                                        301P
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110, 4.69796913147, 4.94333267886, 0.0, 2.31796913147,
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303P
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4.94333267886,0.0,0,0;
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100,0.0,4.77297,5.24239,4.70589,5.27583,4.69797,
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5.24229,0,0;
110, 4.70296913147, 4.98999675751, 0.0, 4.69796913147,
                                                                         307P
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4.98999675751,0.0,0,0;
                                                                         307P
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                                                                         309P
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5.01500,0,0;
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                                                                                 377
                                                                         311P
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                                                                         313P
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5.47126073709,0.0,0,0;
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5.41365748358, 4.44919134108, 5.41365748358, 0, 0;
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                                                                         321P
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                                                                         323P
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5.41365748358,4.02850086759,5.41365748358,0,0;
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5.41365748358,3.88827070976,5.41365748358,0,0;
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100,0.0,3.70004055193,5.41365748358,3.74804055193,
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3.6078103941,5.41365748358,0,0;
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                                                                         333P
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                                                                                 401
                                                                         337P
                                                                                 402
100,0.0,3.13911992062,5.41365748358,3.18711992062,
5.41365748358,3.18711992062,5.41365748358,0,0;
                                                                         337P
                                                                                 403
                                                                         339P
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100,0.0,2.99888976279,5.41365748358,3.04688976279,
                                                                         339P
5.41365748358,3.04688976279,5.41365748358,0,0;
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100,0.0,2.85865960496,5.41365748358,2.90665960496,
                                                                         341P
                                                                                 406
5.41365748358,2.90665960496,5.41365748358,0,0;
                                                                         341P
                                                                                 407
100,0.0,2.5781992893,5.41365748358,2.6261992893,5.41365748358,
                                                                         343P
                                                                                 408
                                                                         343P
                                                                                 409
2.6261992893, 5.41365748358, 0, 0;
110,2.29796913147,5.27583267886,0.0,2.25796913147,
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5.27583267886,0.0,0,0;
                                                                         345P
                                                                                 411
110,2.29796913147,5.23583267886,0.0,2.25796913147,
                                                                         347P
                                                                                 412
                                                                         347P
                                                                                 413
5.23583267886,0.0,0,0;
                                                                         349P
                                                                                 414
100,0.0,2.43796913147,5.41365748358,2.48596913147,
                                                                         349P
                                                                                 415
5.41365748358,2.48596913147,5.41365748358,0,0;
100,0.0,2.71842944713,5.41365748358,2.76642944713,
                                                                         351P
                                                                                 416
                                                                         351P
                                                                                 417
5.41365748358,2.76642944713,5.41365748358,0,0;
                                                                         353P
                                                                                 418
110, 4.69796913147, 4.07333267886, 0.0, 2.30484413147,
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4.07333267886,0.0,0,0;
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                                                                                 420
100,0.0,4.33107626217,4.22333267886,4.37907626217,
                                                                         355P
                                                                                 421
4.22333267886, 4.37907626217, 4.22333267886, 0, 0;
                                                                         357P
                                                                                 422
100,0.0,4.19084610434,4.22333267886,4.23884610434,
4.22333267886, 4.23884610434, 4.22333267886, 0, 0;
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100,0.0,3.91038578868,4.22333267886,3.95838578868,
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                                                                                 424
4.22333267886, 3.95838578868, 4.22333267886, 0, 0;
                                                                         359P
                                                                                 425
                                                                         361P
100,0.0,3.77015563085,4.22333267886,3.81815563085,
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                                                                         361P
4.22333267886,3.81815563085,4.22333267886,0,0;
                                                                                 427
100,0.0,4.05061594651,4.22333267886,4.09861594651,
                                                                         363P
                                                                                 428
                                                                         363P
                                                                                 429
4.22333267886, 4.09861594651, 4.22333267886, 0, 0;
                                                                         365P
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100,0.0,3.62992547302,4.22333267886,3.67792547302,
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4.22333267886,3.67792547302,4.22333267886,0,0;
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                                                                         367P
100,0.0,4.05061594651,4.45833267886,4.09861594651,
4.45833267886,4.09861594651,4.45833267886,0,0;
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100,0.0,4.19084610434,4.45833267886,4.23884610434,
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369P
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4.45833267886,4.23884610434,4.45833267886,0,0;
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                                                                                 437
                                                                        371P
4.57583267886,4.51907626217,4.57583267886,0,0;
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100,0.0,4.33107626217,4.69333267886,4.37907626217,
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                                                                                 439
4.69333267886,4.37907626217,4.69333267886,0,0;
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100,0.0,4.19084610434,4.69333267886,4.23884610434,
                                                                        375P
                                                                                 440
                                                                        375P
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4.69333267886,4.23884610434,4.69333267886,0,0;
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                                                                        377P
100,0.0,4.05061594651,4.69333267886,4.09861594651,
                                                                        377P
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4.69333267886,4.09861594651,4.69333267886,0,0;
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                                                                        379P
100,0.0,3.77015563085,4.45833267886,3.81815563085,
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                                                                                 445
4.45833267886,3.81815563085,4.45833267886,0,0;
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100,0.0,4.33107626217,4.45833267886,4.37907626217,
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                                                                        381P
4.45833267886,4.37907626217,4.45833267886,0,0;
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100,0.0,3.91038578868,4.45833267886,3.95838578868,
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                                                                         383P
4.45833267886,3.95838578868,4.45833267886,0,0;
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100,0.0,3.20923499953,4.22333267886,3.25723499953,
                                                                         385P
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4.22333267886,3.25723499953,4.22333267886,0,0;
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100,0.0,3.0690048417,4.22333267886,3.1170048417,4.22333267886,
                                                                         387P
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                                                                                 453
                                                                         387P
3.1170048417, 4.22333267886, 0, 0;
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                                                                         389P
100,0.0,2.92877468387,4.22333267886,2.97677468387,
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                                                                         389P
4.22333267886,2.97677468387,4.22333267886,0,0;
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                                                                         391P
100,0.0,2.78854452604,4.22333267886,2.83654452604,
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                                                                         391P
4.22333267886,2.83654452604,4.22333267886,0,0;
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                                                                         393P
100,0.0,2.64831436821,4.22333267886,2.69631436821,
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                                                                         393P
4.22333267886,2.69631436821,4.22333267886,0,0;
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                                                                         395P
100,0.0,2.50808421038,4.22333267886,2.55608421038,
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                                                                         395P
4.22333267886,2.55608421038,4.22333267886,0,0;
                                                                         397P
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110,2.25796913147,4.92333267886,0.0,2.25796913147,
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                                                                         397P
4.12020767886,0.0,0,0;
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100,0.0,2.36785405256,4.22333267886,2.41585405256,
                                                                         399P
                                                                                 465
                                                                         399P
4.22333267886,2.41585405256,4.22333267886,0,0;
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100,0.0,2.25797,4.07333,2.30484,4.07333,2.25797,
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                                                                         401P
4.12021,0,0;
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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                                                                                 468
                                                                         403P
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0.0,0,0,2.10804458618,4.17826200897,0.0,1H5,0,0;
                                                                                 470
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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0.0,0,0,2.10804458618,4.41326166565,0.0,1H4,0,0;
                                                                         405P
                                                                                 472
100,0.0,2.36785405256,4.45833267886,2.41585405256,
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                                                                         407P
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4.45833267886, 2.41585405256, 4.45833267886, 0, 0;
                                                                         409P
                                                                                 474
100,0.0,2.64831436821,4.45833267886,2.69631436821,
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                                                                         409P
4.45833267886,2.69631436821,4.45833267886,0,0;
                                                                         411P
                                                                                 476
100,0.0,2.78854452604,4.45833267886,2.83654452604,
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                                                                                 477
4.45833267886,2.83654452604,4.45833267886,0,0;
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                                                                         413P
100,0.0,2.92877468387,4.45833267886,2.97677468387,
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4.45833267886,2.97677468387,4.45833267886,0,0;
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                                                                                 480
100,0.0,2.50808421038,4.45833267886,2.55608421038,
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4.45833267886,2.55608421038,4.45833267886,0,0;
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100,0.0,2.36785405256,4.69333267886,2.41585405256,
4.69333267886,2.41585405256,4.69333267886,0,0;
                                                                         417P
                                                                                 483
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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                                                                                 484
0.0,0,0,2.10804553986,4.648262276,0.0,1H3,0,0;
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100,0.0,2.50808421038,4.69333267886,2.55608421038,
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                                                                                 486
4.69333267886, 2.55608421038, 4.69333267886, 0, 0;
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                                                                         423P
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4.69333267886,2.69631436821,4.69333267886,0,0;
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                                                                         425P
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110,2.7102657769,5.05228199717,0.0,2.65647803844,
4.74063336055,0.0,0,0;
                                                                         425P
                                                                                 491
                                                                                 492
                                                                         427P
100,0.0,2.92877468387,4.69333267886,2.97677468387,
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                                                                         427P
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                                                                         429P
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4.69333267886,3.39746515736,4.69333267886,0,0;
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                                                                         431P
                                                                                 496
100,0.0,3.20923499953,4.69333267886,3.25723499953,
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                                                                         431P
4.69333267886, 3.25723499953, 4.69333267886, 0, 0;
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100,0.0,3.0690048417,4.69333267886,3.1170048417,4.69333267886,
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                                                                                 499
3.1170048417, 4.69333267886, 0, 0;
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100,0.0,2.78854452604,4.69333267886,2.83654452604,
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4.69333267886, 2.83654452604, 4.69333267886, 0, 0;
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4.74063336055,0.0,0,0;
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                                                                                 503
110,2.99072609256,5.05228199717,0.0,2.9369383541,
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                                                                        439P
4.74063336055,0.0,0,0;
                                                                        439P
                                                                                 505
110,3.13095625039,5.05228199717,0.0,3.07716851193,
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                                                                                 506
4.74063336055,0.0,0,0;
                                                                        441P
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110,3.27118640822,5.05228199717,0.0,3.21739866976,
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4.74063336055,0.0,0,0;
                                                                        443P
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110,3.41141656605,5.05228199717,0.0,3.35762882759,
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4.74063336055,0.0,0,0;
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100,0.0,3.70004055193,5.09958267886,3.74804055193,
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5.09958267886,3.74804055193,5.09958267886,0,0;
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100,0.0,3.5598103941,5.09958267886,3.6078103941,5.09958267886,
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3.6078103941,5.09958267886,0,0;
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100,0.0,3.41958023627,5.09958267886,3.46758023627,
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5.09958267886,3.46758023627,5.09958267886,0,0;
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100,0.0,3.27935007845,5.09958267886,3.32735007845,
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5.09958267886,3.32735007845,5.09958267886,0,0;
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100,0.0,3.13911992062,5.09958267886,3.18711992062,
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5.09958267886,3.18711992062,5.09958267886,0,0;
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100,0.0,2.99888976279,5.09958267886,3.04688976279,
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5.09958267886,3.04688976279,5.09958267886,0,0;
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100,0.0,2.85865960496,5.09958267886,2.90665960496,
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5.09958267886,2.90665960496,5.09958267886,0,0;
                                                                        459P
                                                                                525
100,0.0,2.71842944713,5.09958267886,2.76642944713,
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5.09958267886,2.76642944713,5.09958267886,0,0;
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100,0.0,2.5781992893,5.09958267886,2.6261992893,5.09958267886,
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2.6261992893,5.09958267886,0,0;
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110, 2.57003561907, 5.05228199717, 0.0, 2.51624788061,
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                                                                                530
4.74063336055,0.0,0,0;
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                                                                                532
4.74063336055,0.0,0,0;
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4.96333,0,0;
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100,0.0,2.43796913147,5.09958267886,2.48596913147,
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5.09958267886, 2.48596913147, 5.09958267886, 0, 0;
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                                                                                537
110,2.29796913147,4.96333267886,0.0,2.25796913147,
                                                                        473P
                                                                                538
4.96333267886,0.0,0,0;
                                                                        473P
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                                                                                540
4.92333267886,0.0,0,0;
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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                                                                                542
0.0,0,0,2.10804553986,5.054512276,0.0,1H2,0,0;
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110,2.25796913147,5.27583267886,0.0,2.25796913147,
                                                                        479P
                                                                                544
5.61312175751,0.0,0,0;
                                                                        479P
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212,1,1,0.719000000000E-01,0.901388848821E-01,1,1.57079648972,
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                                                                                546
0.0,0,0,2.10804553986,5.36858774597,0.0,1H1,0,0;
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100,0.0,2.25796913147,5.65999675751,2.25796913147,
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5.61312175751,2.30484413147,5.65999675751,0,0;
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                        485P
                                                                                550
0.0,0,0,2.40055274963,5.71786238129,0.0,1HA,0,0;
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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0.0,0,0,2.54078197479,5.71786238129,0.0,1HB,0,0;
                                                                        487P
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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0.0,0,0,2.68101215363,5.71786238129,0.0,1HC,0,0;
                                                                        489P
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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                                                                                556
0.0,0,0,2.82124233246,5.71786238129,0.0,1HD,0,0;
                                                                        491P
                                                                                557
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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0.0,0,0,2.96147251129,5.71786238129,0.0,1HE,0,0;
                                                                        493P
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                        495P
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                        497P
                                                                                562
0.0,0,0,3.24193286896,5.71786238129,0.0,1HG,0,0;
                                                                        497P
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                        499P
                                                                                564
0.0,0,0,4.50377368927,5.71786238129,0.0,1HR,0,0;
                                                                        499P
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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567
                                                                        501P
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                                                                                568
                                                                        503P
                                                                        503P
                                                                                569
0.0,0,0,4.22354412079,5.71786238129,0.0,1HP,0,0;
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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                                                                                570
                                                                        505P
                                                                                571
0.0,0,0,4.08331394196,5.71786238129,0.0,1HN,0,0;
                                                                                572
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                        507P
                                                                                573
                                                                        507P
0.0,0,0,3.94308376312,5.71786238129,0.0,1HM,0,0;
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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                                                                        509P
                                                                                575
0.0,0,0,3.80285358429,5.71786238129,0.0,1HL,0,0;
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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                                                                        511P
                                                                                 577
                                                                        511P
0.0,0,0,3.66262340546,5.71786238129,0.0,1HK,0,0;
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212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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                                                                                 579
                                                                        513P
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                                                                        515P
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0.0,0,0,3.38216304779,5.71786238129,0.0,1HH,0,0;
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                                                                                 582
100,0.0,3.91038578868,4.69333267886,3.95838578868,
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                                                                                 583
                                                                        517P
4.69333267886,3.95838578868,4.69333267886,0,0;
                                                                                 584
110,4.36784302635,4.4891904988,0.0,4.43430949798,
                                                                        519P
                                                                                 585
                                                                        519P
4.54497485892,0.0,0,0;
                                                                                 586
                                                                        521P
100,0.0,4.47130641999,4.22333267886,4.51930641999,
                                                                                 587
                                                                         521P
4.22333267886,4.51930641999,4.22333267886,0,0;
212,1,8,0.759000026226,0.901388848821E-01,1,1.57079648972,0.0,
                                                                                 588
                                                                         523P
                                                                                 589
                                                                         523P
0,0,3.13067740507,3.78854490692,0.0,8H52Z-C007,0,0;
                                                                                 590
                                                                         525P
110,3.55164672388,5.05228199717,0.0,3.49785898542,
                                                                                 591
                                                                         525P
4.74063336055,0.0,0,0;
                                                                                 592
                                                                         527P
100,0.0,3.48969531519,4.69333267886,3.53769531519,
                                                                                 593
                                                                         527P
4.69333267886,3.53769531519,4.69333267886,0,0;
212,1,48,2.853333333333,0.737566644812E-01,1,1.57079648972,
                                                                         529P
                                                                                 594
0.0,0,0,3.4963709259,0.179828651249,0.0,48HCALS Test Network LGT
                                                                                 595
                                                                         529P
                                                                                 596
                                                                         529P
ABLE Reference Illustration, 0, 0;
                                                                         531P
                                                                                 597
102,3,21,23,
                                                                         531P
                                                                                 598
25,0,0;
                                                                                 599
                                                                         533P
102,3,11,13,
                                                                                 600
                                                                         533P
15,0,0;
                                                                                 601
                                                                         535P
230,327,1,3.84,5.41,0.0,0.005,0.7854,0,0,0;
                                                                         537P
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230,325,1,3.98,5.41,0.0,0.005,0.7854,0,0,0;
                                                                         539P
                                                                                 603
230,323,1,4.12,5.41,0.0,0.005,0.7854,0,0,0;
                                                                         541P
                                                                                 604
230,531,1,2.91,7.11,0.0,0.005,0.7854,0,0,0;
                                                                                 605
230,533,1,3.22,7.46,0.0,0.005,0.7854,0,0,0;
                                                                         543P
                                                                                   1
                4D
                      544P
        8G
```

Attachment J

IENTITY Entity Listing and Count

** Entity Occurrence Counts **

Entity	Form	Level	Count	Type
0	0	0	37	Null entity
100	0	0	3	Circular arc
102	0	0	2	Composite curve
104	0	0	1	Conic arc - general form
104	1	0	1	Conic arc - ellipse
104	2	0	1	Conic arc - hyperbola
104	3	0	1	Conic arc - parabola
106	11	0	1	Copious data - Piecewise planar, linear string
106	63	0	1	Simple closed area
110	0	0	27	Line
112	0	0	2	Parametric spline curve
124	0	0	5	Transformation matrix
126	0	0	1	Rational B-spline curve
126	1	0	1	Rational B-spline curve - Line
126	2	0	1	Rational B-spline curve - Circular arc
126	3	0	1	Rational B-spline curve - Elliptical arc
126	4	0	1	Rational B-spline curve - Parabolic arc
126	5	0	1	Rational B-spline curve - Hyperbolic arc
212	0	0	39	General note
212	1	0	1	General note - dual stack dimension
212	2	0	1	General note - imbedded font change dimension
212	3	0	1	General note - superscripted dimension
212	4	0	1	General note - subscripted dimension
212	5	0	1	General note - super-/sub-scripted dimension
212	6	0	1	General note - multiple stack/left justified
212	7	0	1	General note - multiple stack/center justified
212	. 8	0	1	General note - multiple stack/right justified
212	100	0	1	General note - simple fractional dimension
212	101	0	1	General note - dual stack fractional dimension
212	102	0	1	General note - imbedded font change/double frac
212	105	0	1	General note - super-/sub-scripted fractional
230	0	0	1	Sectioned area
308	0	0	1	Subfigure definition
404	0	0	1	Drawing
406	16	0	1	Property - Drawing size
406	18	0	1	Intercharacter Spacing
408	0	0	1	Single subfigure instance
410	0	0	1	View - Orthographic parallel
412	0	0	1	Rectangular subfigure instance
414	0	0	1	Circular subfigure instance

Attachment K

LGTABLE Entity Listing and Count

** Entity Occurrence Counts **

Entity	Form	Level	Count	Type
~				
0	0	0	4	Null entity
100	Ō	Ö	85	Circular arc
102	0	0	2	Composite curve
104	0	0	5	Conic arc - general form
110	0	0	116	Line
112	0	0	12	Parametric spline curve
124	0	0	3	Transformation matrix
212	0	0	37	General note
230	0	0	5	Sectioned area
404	0	0	1	Drawing
406	16	0	1	Property - Drawing size
410	0	0	1	View - Orthographic parallel